

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79*	1
		ILLINOIS	CONTRACT NO. 70E48	

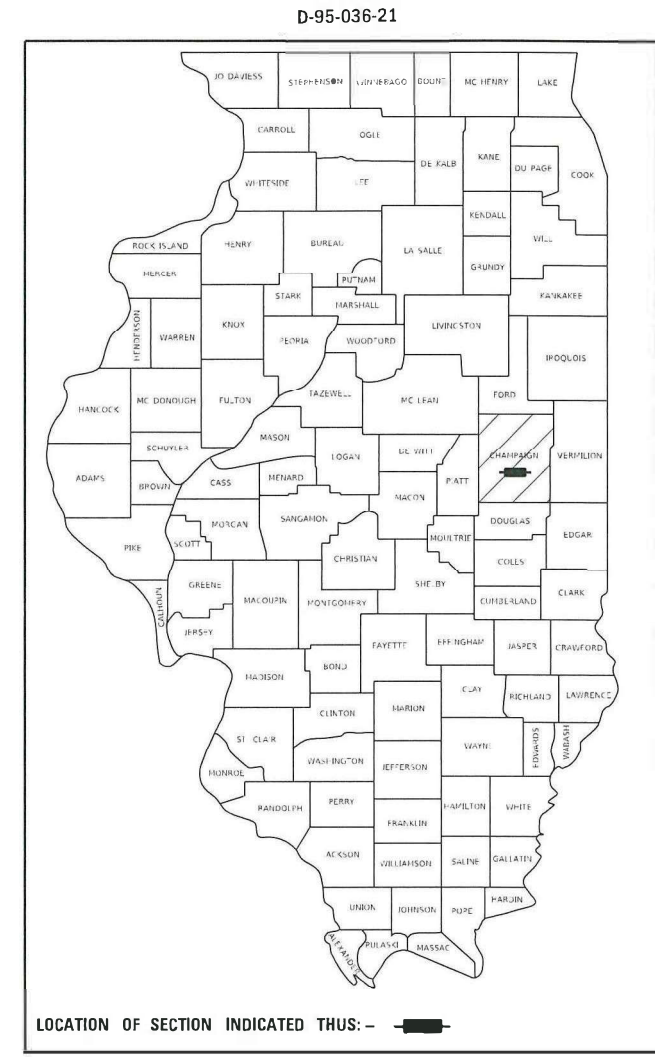
* 79 + 4 = 83 TOTAL SHEETS

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5
FOR HIGHWAY STANDARDS LIST, SEE SHEET NO. 2
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I-74)
SECTION (10-7,10-7B-1)BR
PROJECT NHPP-UTAH(546)
BRIDGE DECK REPAIRS
CHAMPAIGN COUNTY

C-95-051-21

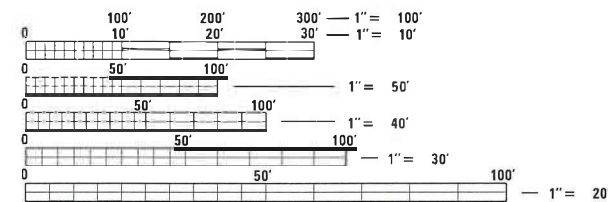


CURRENT TRAFFIC DATA

		I-74 WB	I-74 EB
2021	ADT	14,800	14,800
2031	ADT	151,500	151,500
2041	ADT	16,300	16,300
2041	AM DHV	1,530	925
2041	PM DHV	1,095	1,550
	P.U. & P.C.%	74.0	73.4
	S.U.%	3.0	3.0
	M.U.%	23.0	23.6

DESIGN DESIGNATION

INTERSTATE

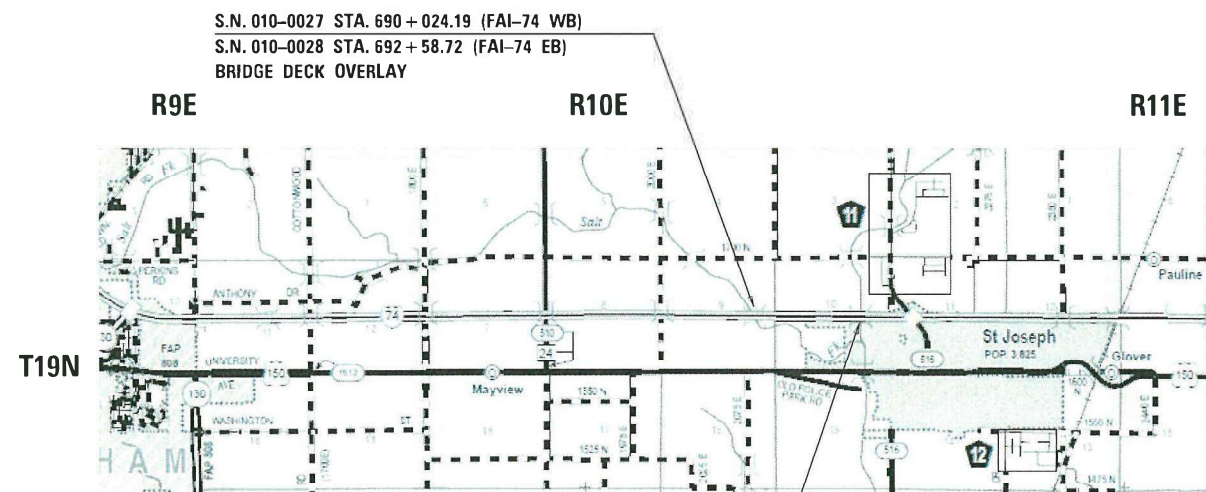


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER TIM BRANDENBURG
PROJECT MANAGER JEFF SHERER

CONTRACT NO. 70E48



S.N. 010-0027 STA. 690 + 024.19 (FAI-74 WB)
S.N. 010-0028 STA. 692 + 58.72 (FAI-74 EB)
BRIDGE DECK OVERLAY

S.N. 010-0029 STA. 739 + 22.00 (FAI-74 WB)
S.N. 010-0030 STA. 739 + 22.00 (FAI-74 EB)
BRIDGE DECK OVERLAY

GROSS LENGTH = 850.00 FT. = 0.161 MILE
NET LENGTH = 850.00 FT. = 0.161 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 5 2021
Brandon J. James
REGIONAL ENGINEER

December 10 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>ITEM</u>
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS
2	GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-37	S.N. 010-0027/ 0028 REPAIR PLANS
38-70	S.N. 010-0029/ 0030 REPAIR PLANS
71-72	DESIGN DETAILS
73-75	WIDTH RESTRICTION SIGNING DETAIL
76-77	RTTC DETAIL
78-79	MISC DESIGN DETAILS

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF RD OPERATIONS, MULTILANE, 15' TO 24" FROM EOP
701400-11	APPROACH LANE CLOSURE-FREEWAY/ EXPRESSWAY
701401-13	LANE CLOSURE-FREEWAY/ EXPRESSWAY
701402-12	LANE CLOSURE-FREEWAY/ EXPRESSWAY + BARRIER
701411-09	LANE CLOSURE MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >45 MPH
701428-01	TRAFFIC CONTROL SETUP REMOVAL FREEWAY/ EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N. 406H Mixture Requirements

Location	FAI 74 (010-0027,28,29,30)	FAI 74 (010-0027,28,29,30)
Mixture Use	Surface (mainline)	Shoulders
AC/PG	SBS PG 70-22	PG 64-22
Design Air Voids	4.0% @ Ndes=90	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 9.5
Friction Aggregate	Mix E	Mix C
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.
Material Transfer Device (Required ?)	No	No

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

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	DRAWN - JMS	REVISED - _____
PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 9/27/2021	DATE - 090821	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS/HIGHWAY STANDARDS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	2
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
CHAMPAIGN COUNTY	CHAMPAIGN COUNTY
STRUCTURE IMPROVEMENT	STRUCTURE IMPROVEMENT
F.A.I. 74	F.A.I. 74
S.N. 010-0027 WB	S.N. 010-0029 WB
S.N. 010-0028 EB	S.N. 010-0030 EB
STA. 690+06.00	STA. 739+22.00
90% FED	90% FED
10% STATE	10% STATE

CODE NO.	ITEM	UNIT	TOTAL	0059	
			QUANTITY	RURAL	RURAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	140.0	70.0	70.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2,776.0	1,388.0	1,388.0
40604174	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90	TON	144.0	72.0	72.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	90.0	45.0	45.0
50102400	CONCRETE REMOVAL	CU YD	48.2	26.6	21.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	57.4	31.2	26.2
50300300	PROTECTIVE COAT	SQ YD	3,745.0	1,960.0	1,785.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	19,640	9,820	9,820
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,570	4,810	4,760
50800515	BAR SPLICERS	EACH	120.0	60.0	60.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	701.0	373.0	328.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	96.0	48.0	48.0
52100520	ANCHOR BOLTS, 1"	EACH	480	240	240
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12.0	6.0	6.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2.0	1.0	1.0

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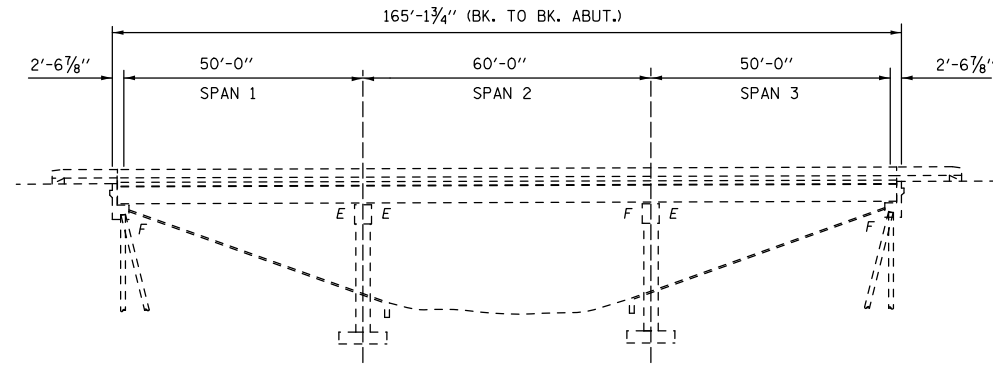
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PLOT DATE = 10/4/2021	CHECKED -	REVISED -
	DATE - 090821	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

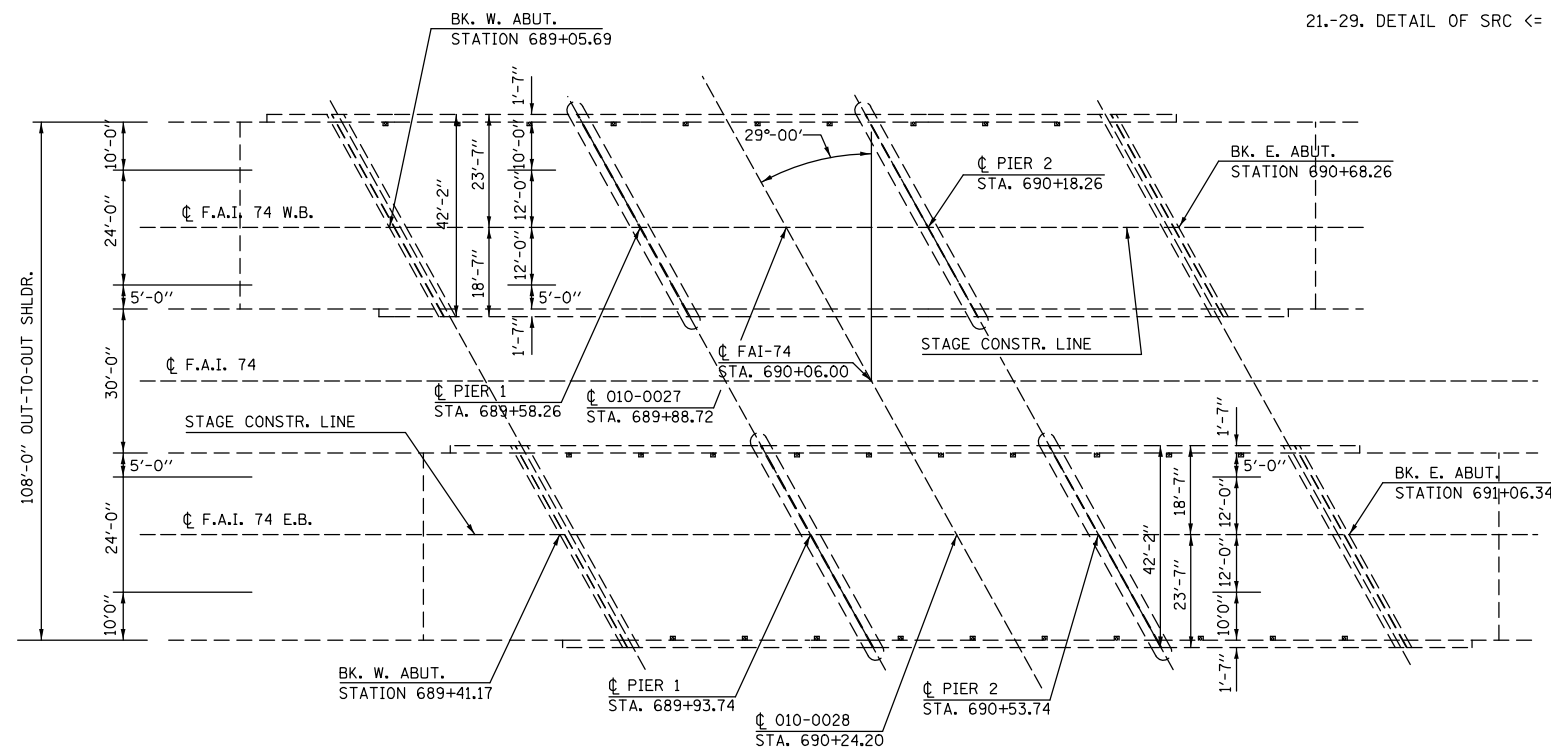
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	3
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



ELEVATION VIEW
E.B. BRIDGE SHOWN W.B. BRIDGE IDENTICAL



PLAN VIEW



Expires 11-30-2022

David Carl Puzey

PROPOSED IMPROVEMENTS

1. REMOVE AND REPLACE BEARINGS AT ALL ABUTMENTS AND PIERS.
2. FIBER WRAP AND BEAM END REPAIRS AT VARIOUS LOCATIONS.
3. DIAPHRAM REPAIRS AT VARIOUS LOCATIONS.
4. REMOVE AND REPLACE EXPANSION JOINTS AT ABUTMENTS AND PIERS.
5. BRIDGE DECK SCARIFICATION, 3/4".
6. PLACEMENT OF PROPOSED LATEX CONCRETE WEARING SURFACE.
7. PLACE POLYMERIZED HOT-MIX ASPHALT RUN-DOWNS.
8. STRUCTURAL REPAIR OF CONCRETE.

INDEX OF SHEETS

1. GENERAL PLAN AND ELEVATION 010-0027 & 010-0028.
2. EXISTING DECK CROSS-SECTION.
- 3.-5. STAGED CONSTRUCTION DETAIL.
- 6.-13. DETAIL OF JOINT REPLACEMENTS.
14. DETAIL OF WEARING SURFACE.
- 15.-19. DETAIL OF FRP REPAIR.
20. DETAIL OF DIAPHRAGM REPAIR.
- 21.-29. DETAIL OF SRC <= 5"

S.N. 010-0027 & 0028 WERE BUILT IN 1959 AS FAI ROUTE 74, SECTION 10-7B AT STATION 690+06.00 IN CHAMPAIGN COUNTY. THE STRUCTURES WERE RECONSTRUCTED IN 1993, SECTION (10-7B)BR. THE STRUCTURES ARE THREE (3) SPAN, 7 1/2" THICK REINFORCED DECK WITH PRESTRESSED CONCRETE BEAMS ON SPREAD FOOTING SUPPORTED PIERS AND CONCRETE PILE SUPPORTED ABUTMENTS.

THE STRUCTURES HAVE A BACK-TO-BACK ABUTMENT LENGTH OF 165-1 3/4", OUT-TO-OUT WIDTH OF 42'-2", BRIDGE ROADWAY WIDTH OF 39'-0", AND AN APPROACH ROADWAY WIDTH OF 41'-0".

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED UTILIZING STAGED CONSTRUCTION.

GENERAL NOTES

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLY SHALL BE HOT-DIP GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL."

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING NEW CONCRETE, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACE IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.

AREAS OF REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE REPAIRS ON AS-BUILT PLANS.

NO AREAS OF DECK SLAB REPAIR (FULL DEPTH) HAVE BEEN FOUND FROM MARCH 24TH, 2021 DECK SURVEY. NO DECK SLAB REPAIR (FULL DEPTH) IS EXPECTED AFTER HYDROSCARIFICATION.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK CONCRETE OVERLAY AND NEW CONCRETE AREAS ADJACENT TO THE DECK JOINTS ONLY.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK CONCRETE OVERLAY SPECIFIED. SEE SPECIAL PROVISIONS.

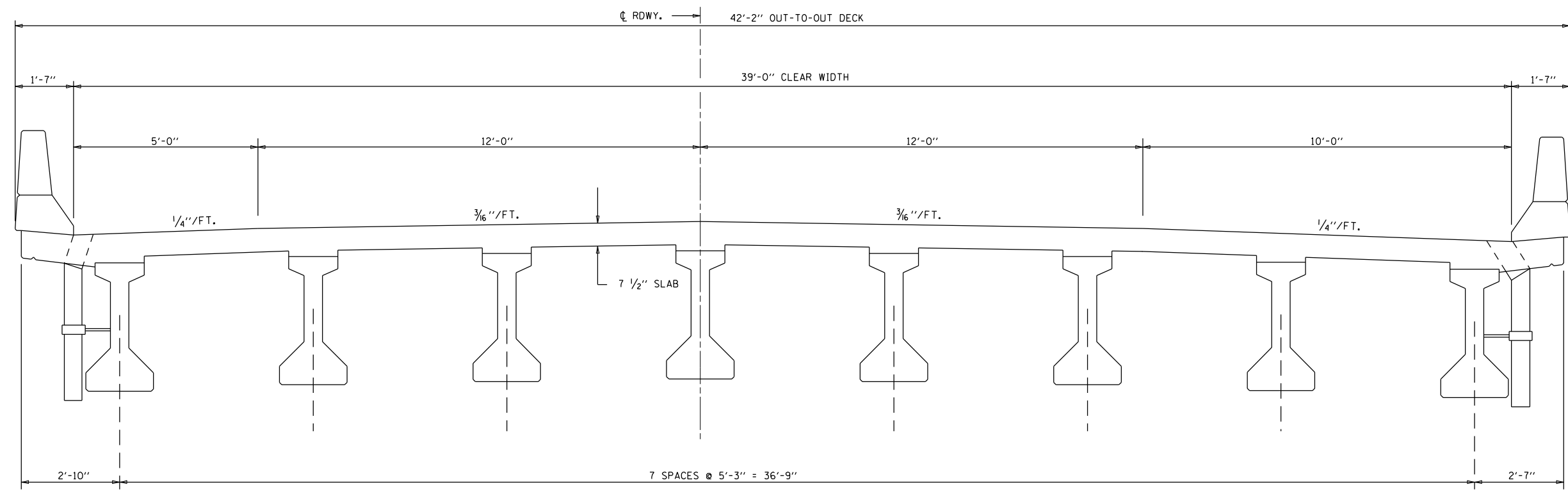
TOTAL BILL OF MATERIALS 010-0027 & 010-0028

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	26.6
CONCRETE SUPERSTRUCTURE	CU YD	31.2
PROTECTIVE COAT	SQ YD	1,960.0
REINFORCEMENT BARS, EPOXY COATED	POUND	4,810.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	9820.0
BAR SPLICERS	EACH	60.0
PREFORMED JOINT STRIP SEAL	FOOT	373.0
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	48.0
ANCHOR BOLTS 1"Ø	EACH	240.0
ACRYLIC COATING	SQ YD	185.0
FIBER WRAP	SQ FT	1,658.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,758.0
JACK AND REMOVE EXISTING BEARINGS	EACH	43.0
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/2"	SQ YD	1,868.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,868.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SQ FT	183.0
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,678.0
PPC CONCRETE I-BEAM REPAIR	SQ FT	378.0
TEMPORARY SHORING AND CRIBBING	EACH	21.0
REMOVAL OF EXISTING BEARINGS	EACH	21.0

EXISTING DECK CROSS SECTION

LOOKING WEST S.N. 010-0027

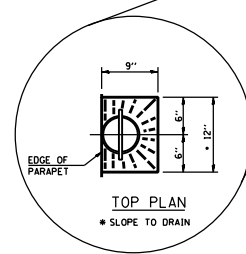
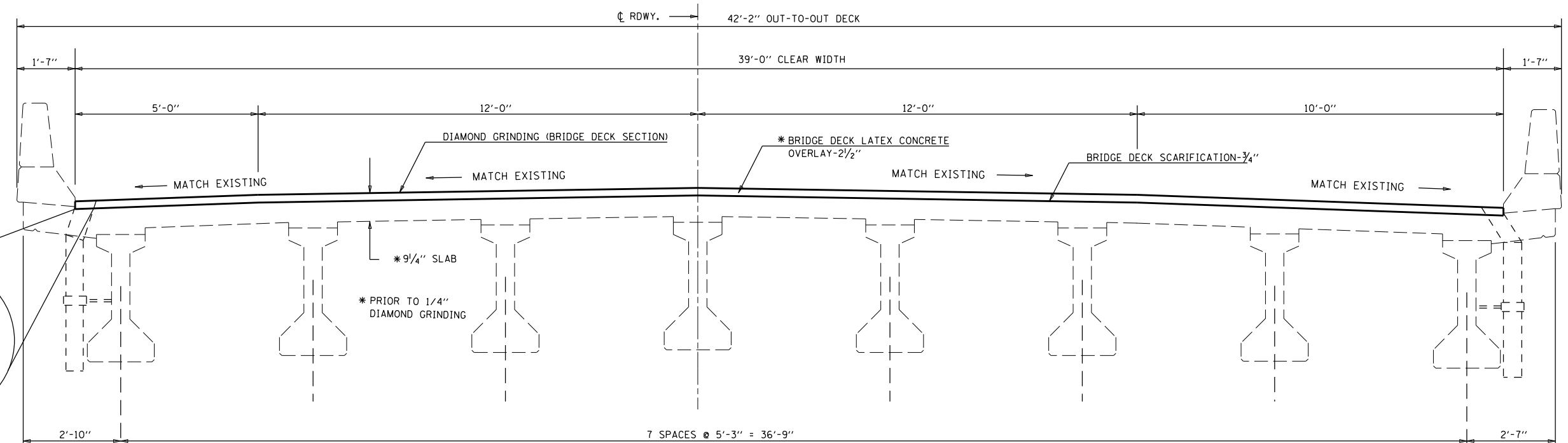
LOOKING EAST S.N. 010-0028



PROPOSED DECK CROSS SECTION

LOOKING WEST S.N. 010-0027

LOOKING EAST S.N. 010-0028

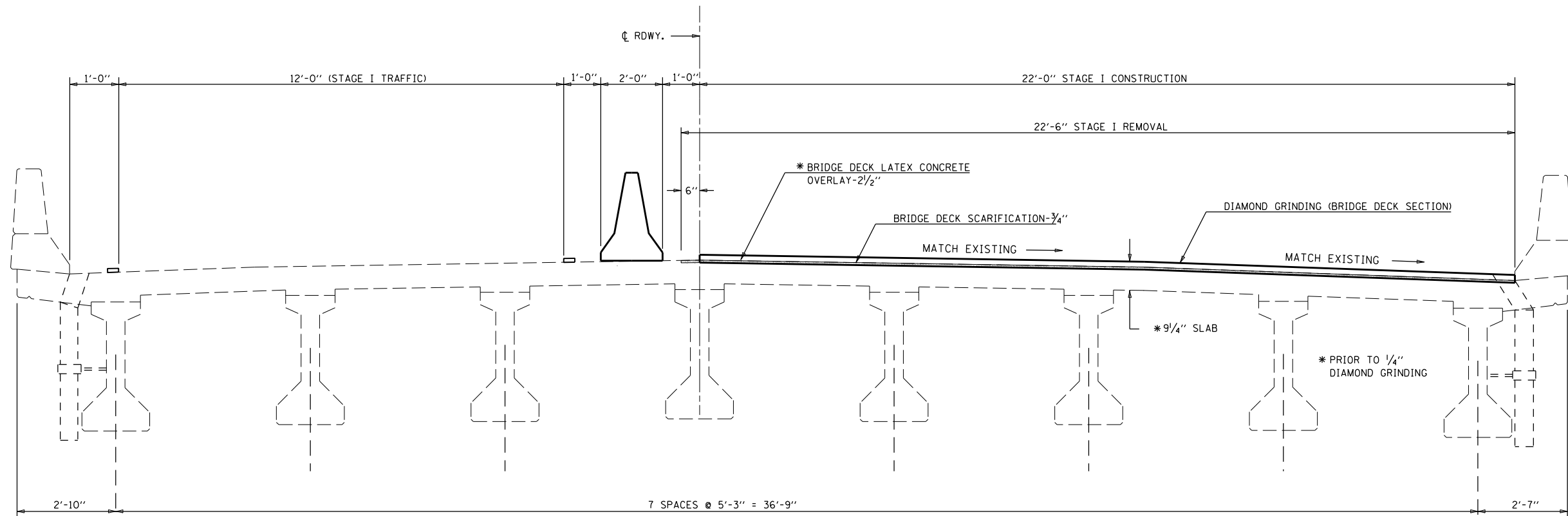


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PLOT DATE = 11/15/2021	DATE - 030821	REVIS	REVIS		SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____			CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT												

STAGE I CONSTRUCTION DETAIL

LOOKING WEST S.N. 010-0027

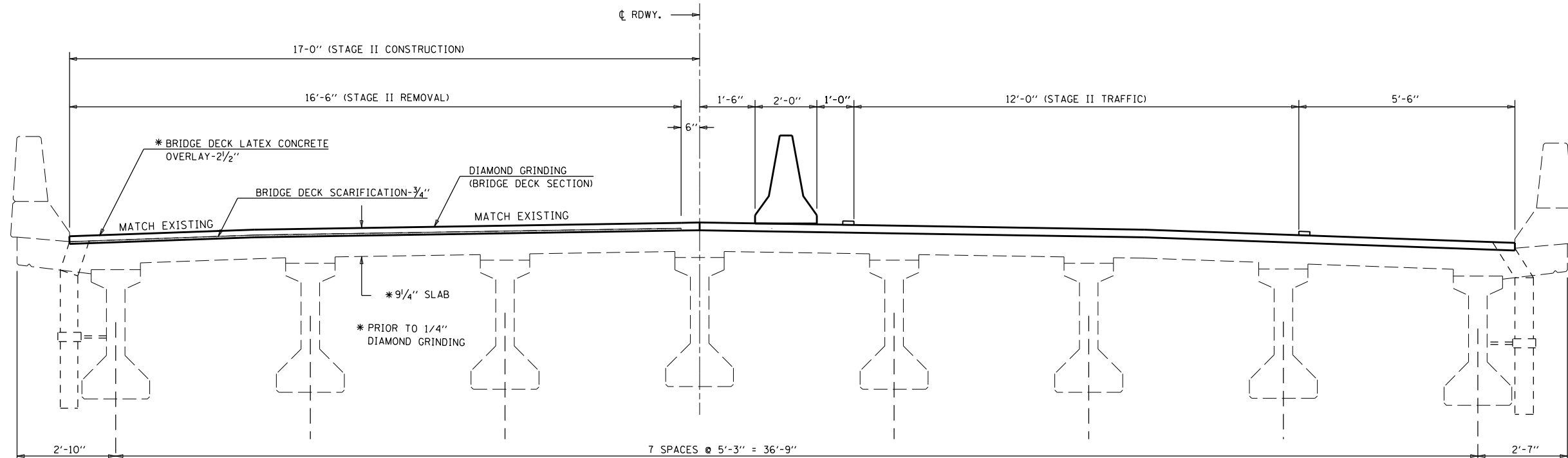
LOOKING EAST S.N. 010-0028



STAGE II CONSTRUCTION DETAIL

LOOKING WEST S.N. 010-0027

LOOKING EAST S.N. 010-0028



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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR -		CONTRACT NO. 70E48							
PLOT DATE = 9/27/2021	DATE - 030821	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							

70400100 TEMPORARY CONCRETE BARRIER

	<u>STATION</u>	<u>TO</u>	<u>STATION</u>		<u>LENGTH</u>
TAPER	RT 686+15.65		RT 688+03.15	010-0027 WB	187.5
	RT 688+03.15		RT 692+28.15	010-0027 WB	425.0
	LT 687+44.95		LT 691+69.95	010-0028 EB	425.0
TAPER	LT 691+69.95		RT 693+57.45	010-0028 EB	187.5
SUB-TOTAL =					1225.0

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	<u>STATION</u>	<u>TO</u>	<u>STATION</u>		<u>LENGTH</u>
TAPER	LT 686+15.65		LT 688+03.15	010-0027 WB	187.5
	LT 688+03.15		LT 692+28.15	010-0027 WB	425.0
	RT 687+44.95		RT 691+69.95	010-0028 EB	425.0
TAPER	RT 691+69.95		RT 693+57.45	010-0028 EB	187.5
SUB-TOTAL =					1225.0

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRTE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

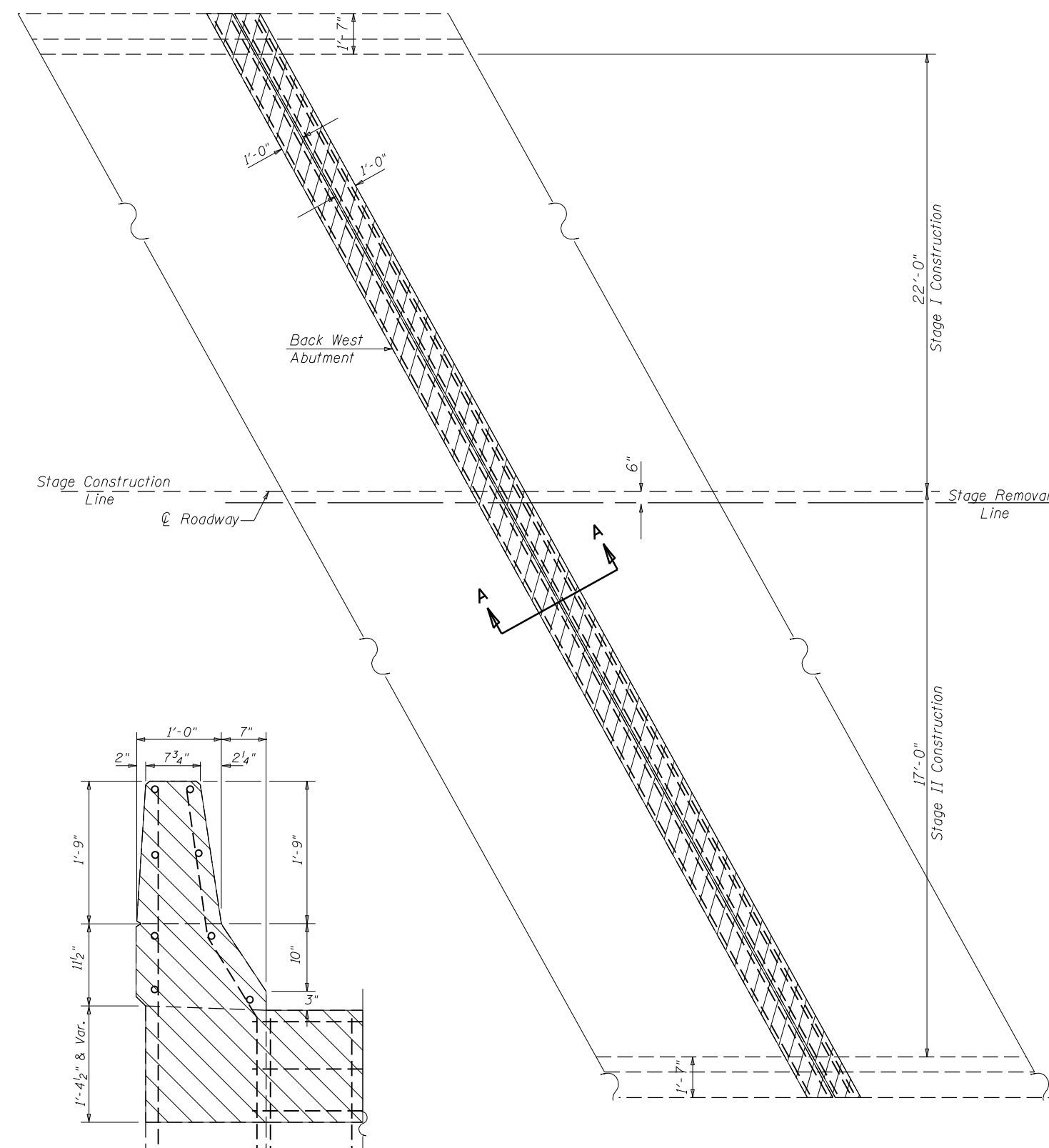
PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

SEE SPECIAL PROVISION FOR FILLING INLETS, TEMPORARY.

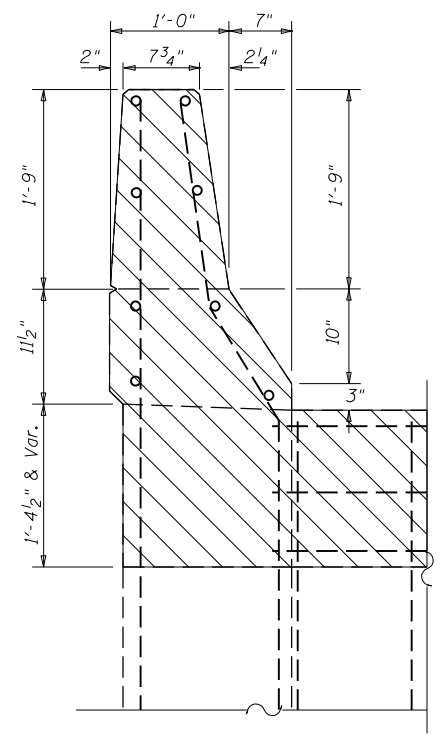
BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	1,225.0
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0
RELCOATE TEMP CONCRETE BARRIER	FOOT	1,225.0
REL IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

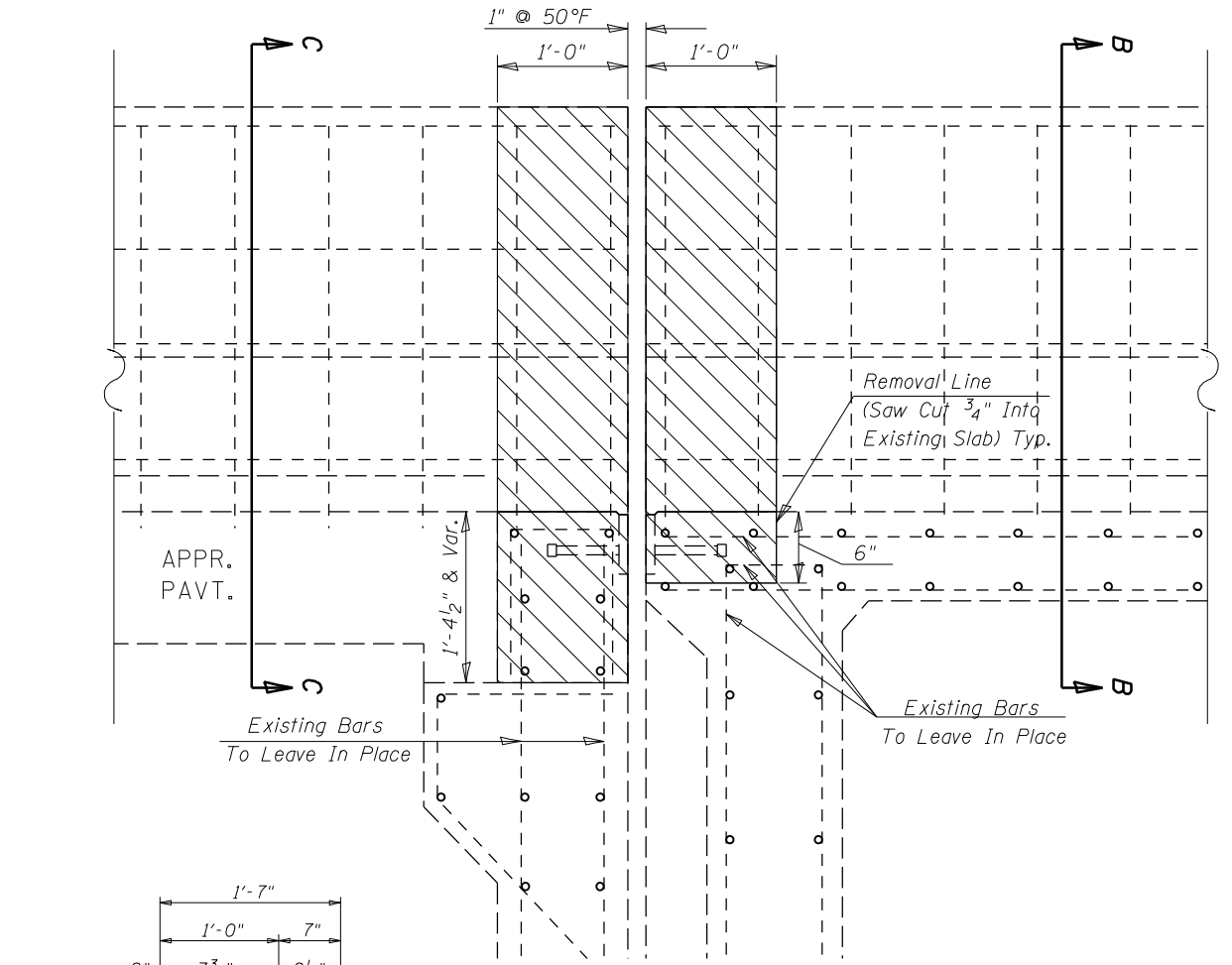
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	PLLOT DATE = 9/27/2021	DATE - 030821	REVISED - -			SCALE: NONE		SHEET NO. 3 OF 3 SHEETS		STA. _____ TO STA. _____	
						ILLINOIS FED. AID PROJECT					



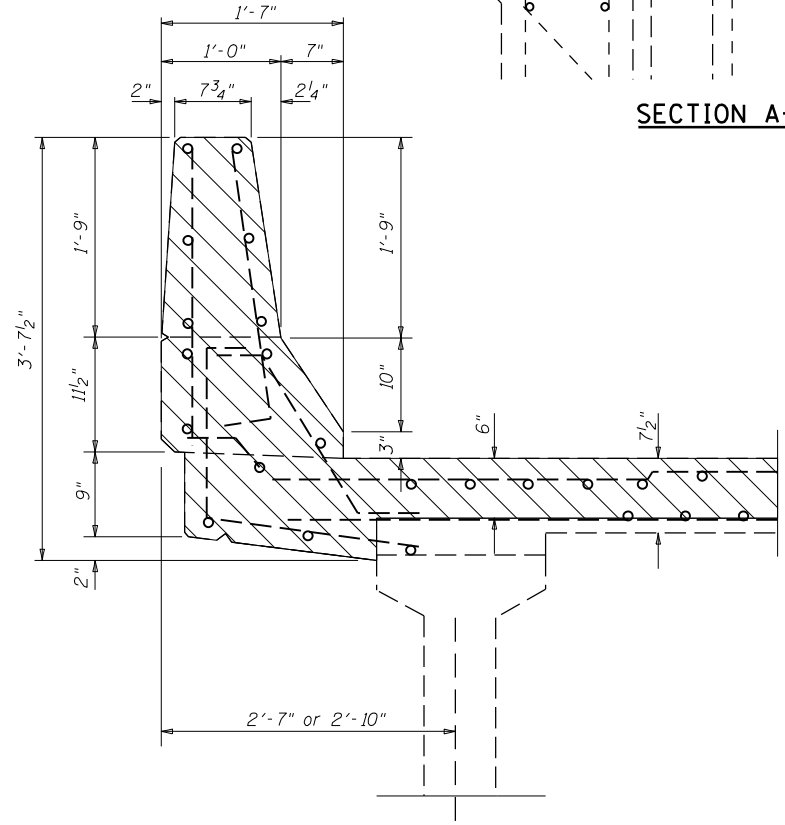
PLAN VIEW
West Abutment Shown
East Abutment similar by rotation



SECTION C-C



SECTION A-A



SECTION B-B

LEGEND:

Concrete Removal

NOTE:

S.N. 010-0027 shown, 010-0028 similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	13.2

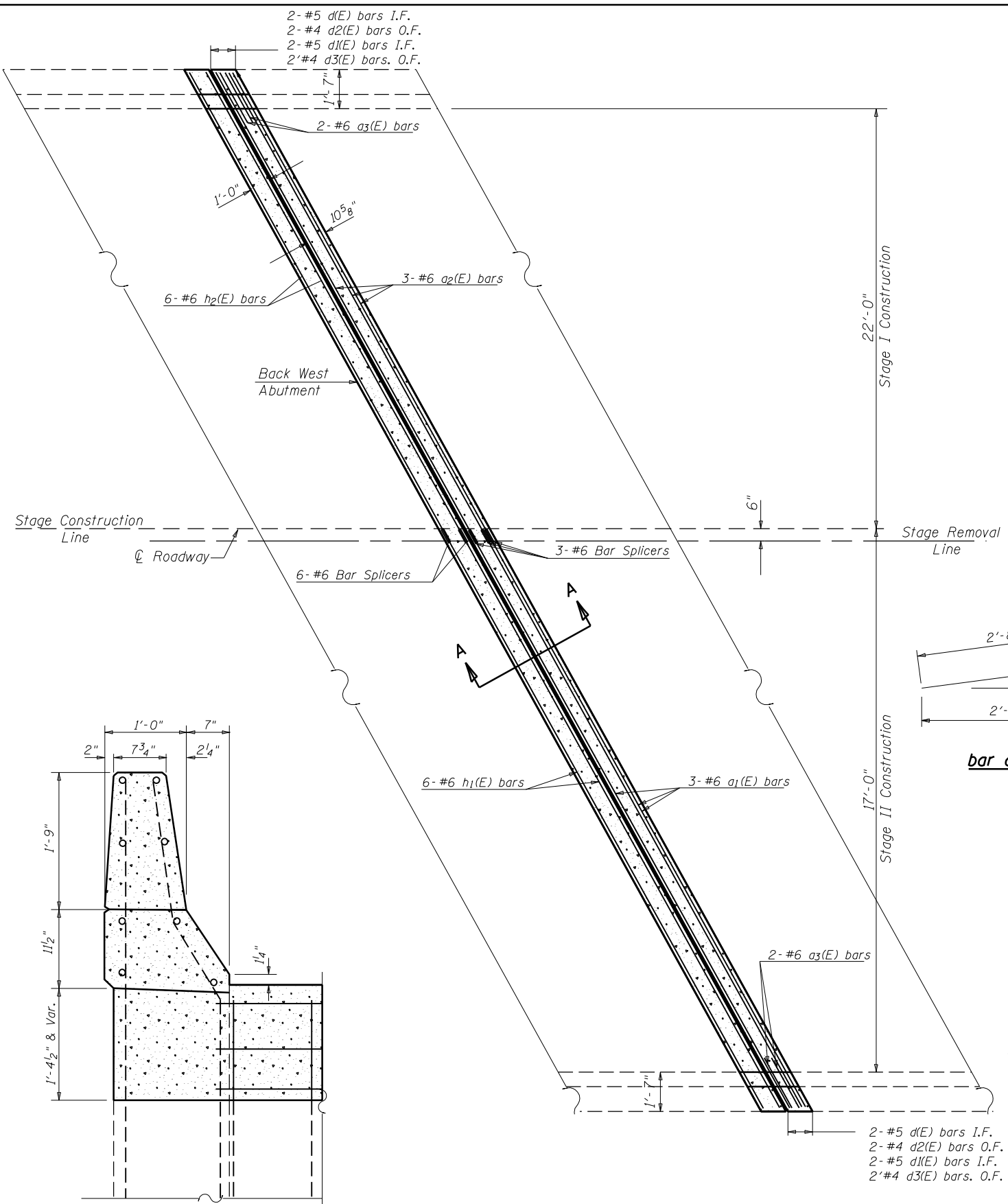
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	PLOT DATE = 9/27/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF CONCRETE REMOVAL AT ABUTMENTS
S.N.(s) 010-0027 & 0028

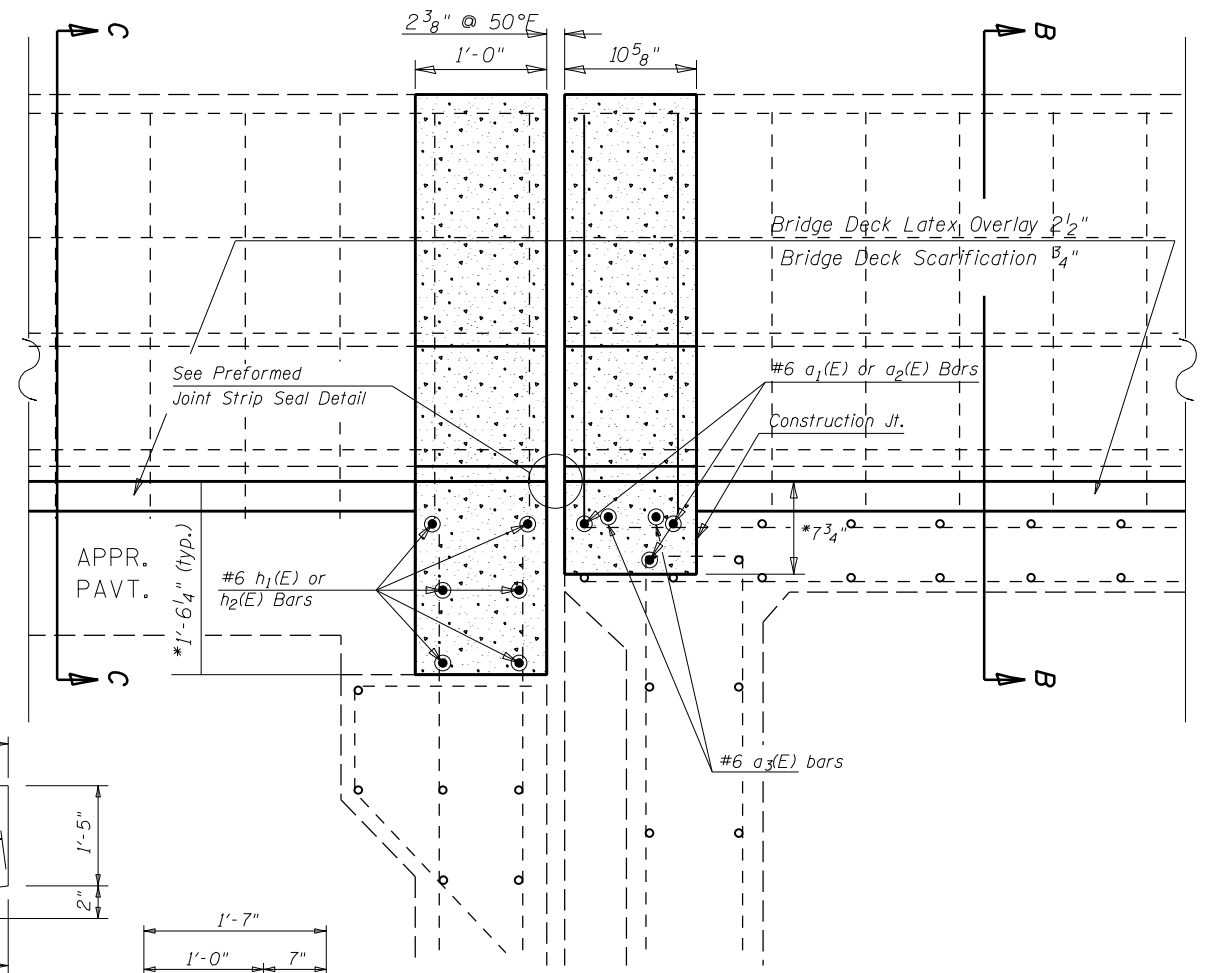
SCALE: NONE SHEET NO. 1 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	11
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



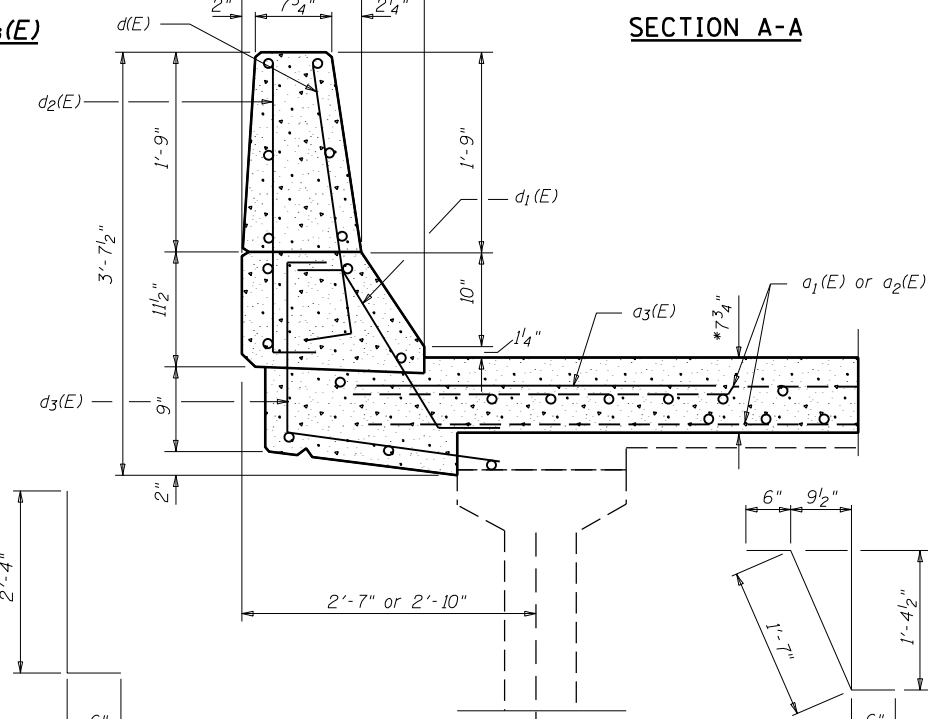
SECTION C-C

PLAN VIEW
West Abutment Shown
East Abutment similar by rotation



SECTION A-A

bar d3(E)



SECTION B-B

bar d1(E)

*Prior to 1/4" Diamond Grinding

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0027 shown, 010-0028 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	26'-9"	—
a ₂ (E)	12	#6	21'-2"	—
a ₃ (E)	8	#6	5'-0"	—
d(E)	8	#5	2'-10"	—
d ₁ (E)	8	#5	2'-7"	—
d ₂ (E)	8	#4	2'-10"	—
d ₃ (E)	8	#4	4'-7"	—
h ₁ (E)	24	#6	26'-9"	—
h ₂ (E)	24	#6	21'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	2750.0
Bar Splicers			Each	36.0
Concrete Superstructures			Cu Yd	15.8

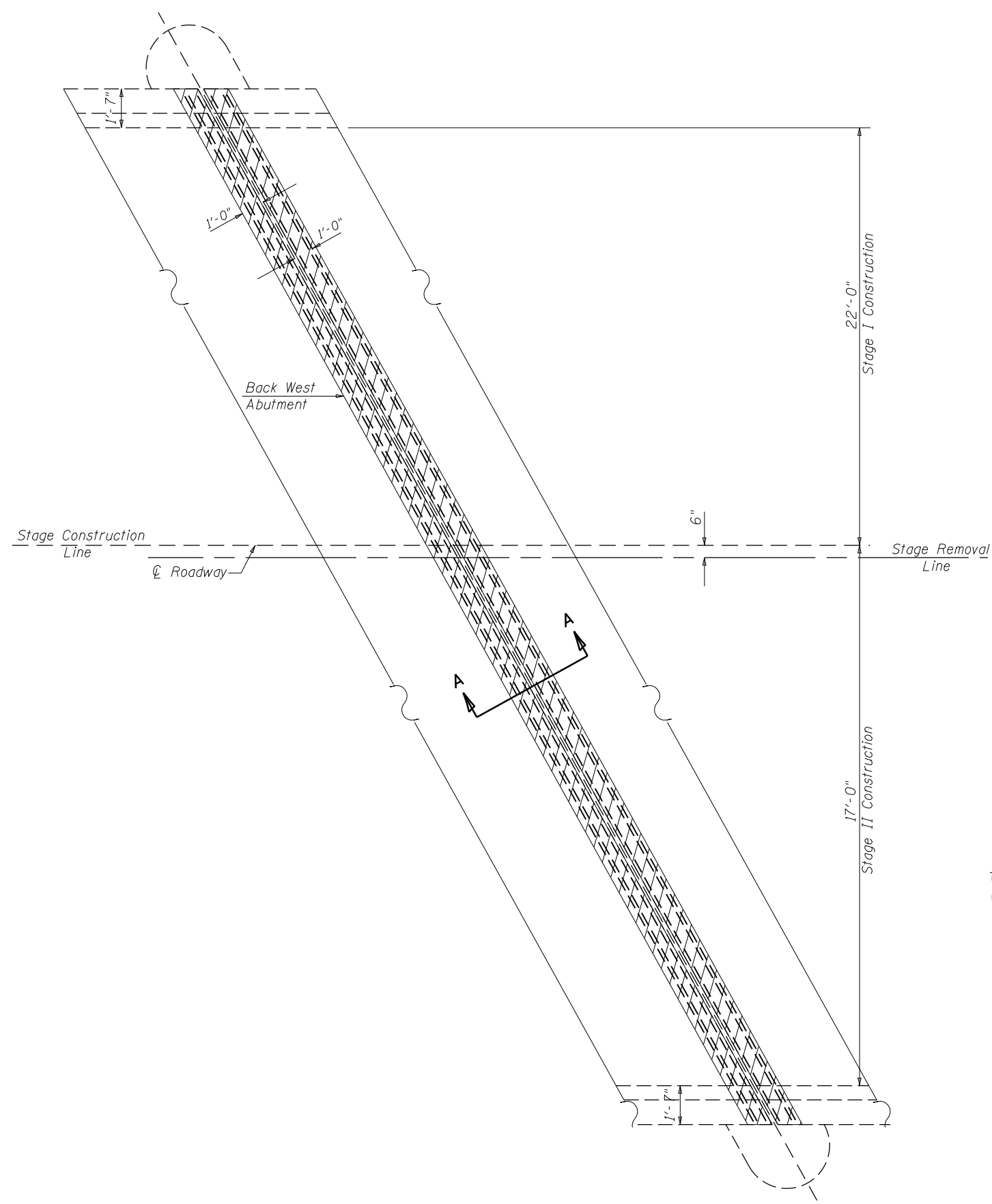
FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -
PROJECT =	PROJECT =	CHECKED -	REVISED - -
PLOT SCALE = 40.0000' / in.	DATE = 030518	DATE = 030518	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

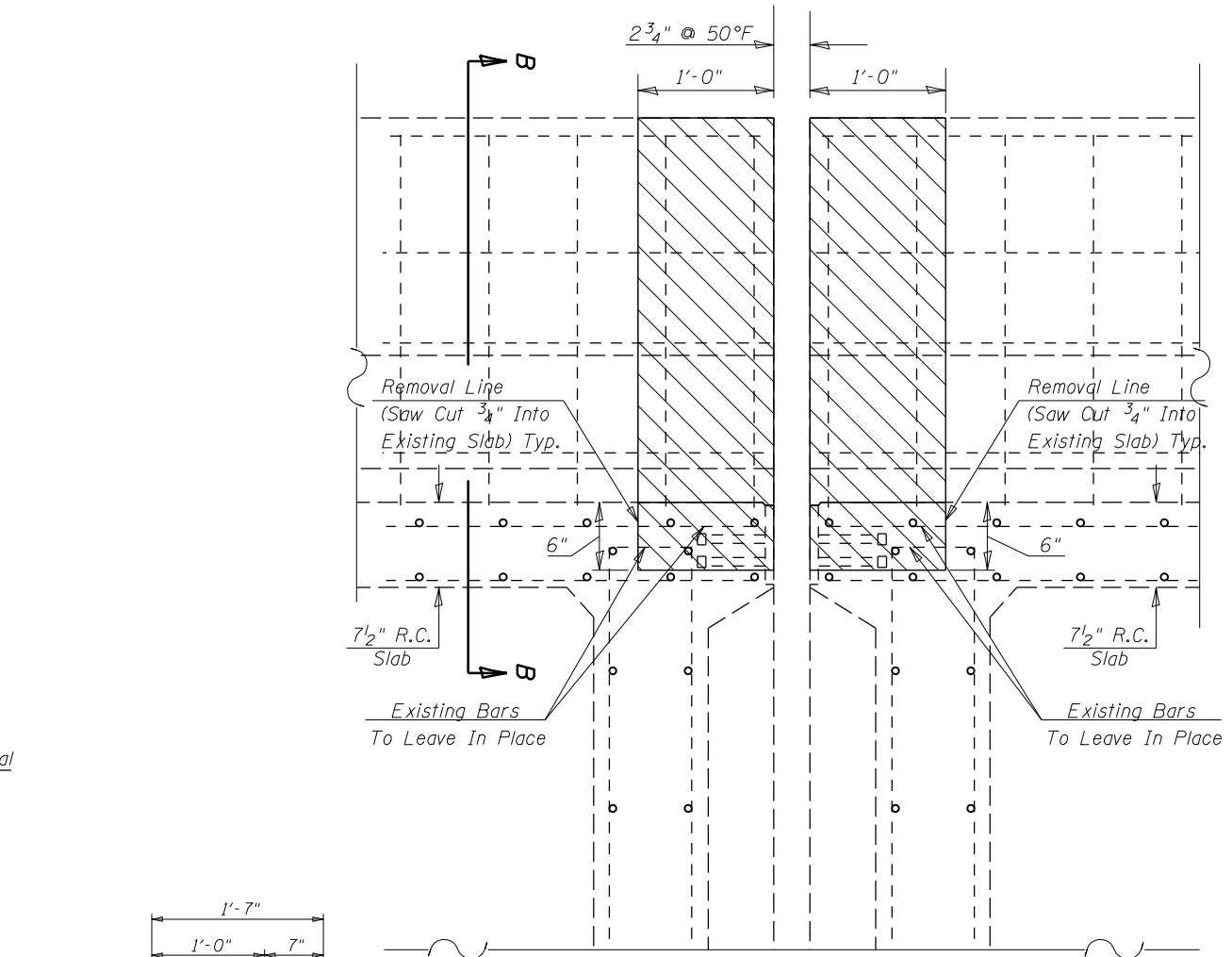
DETAIL OF CONCRETE SUPERSTRUCTURE AT ABUTMENTS
S.N.(s) 010-0027 & 0028

SCALE: NONE SHEET NO. 2 OF 8 SHEETS STA. _____ TO STA. _____

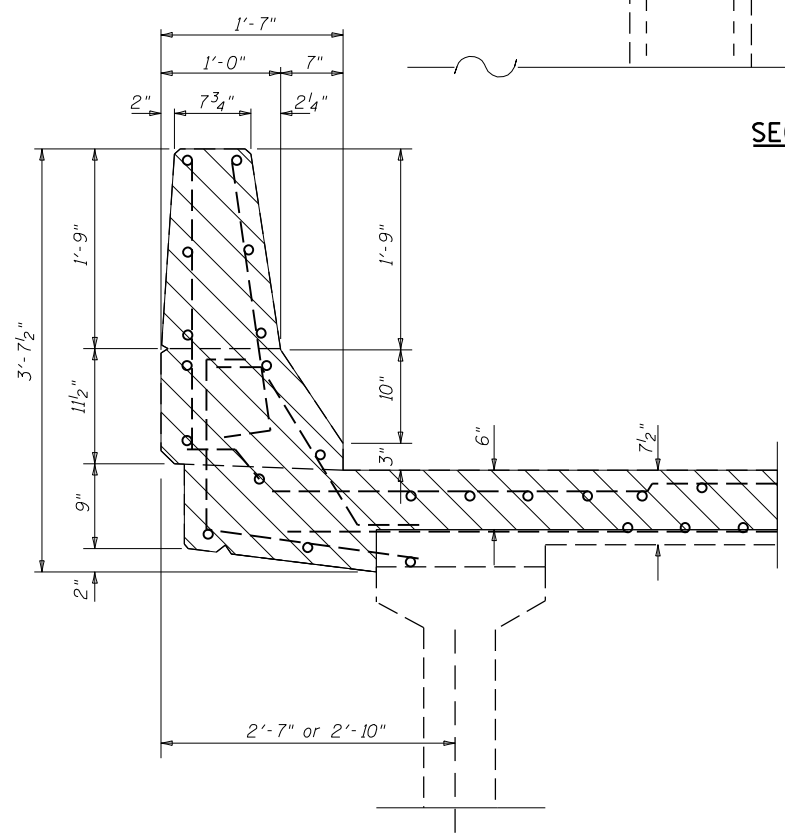
F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	12
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



PLAN VIEW



SECTION A-A



SECTION B-B

LEGEND:

Concrete Removal

NOTE:

S.N. 010-0027 shown, 010-0028 similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	4.0

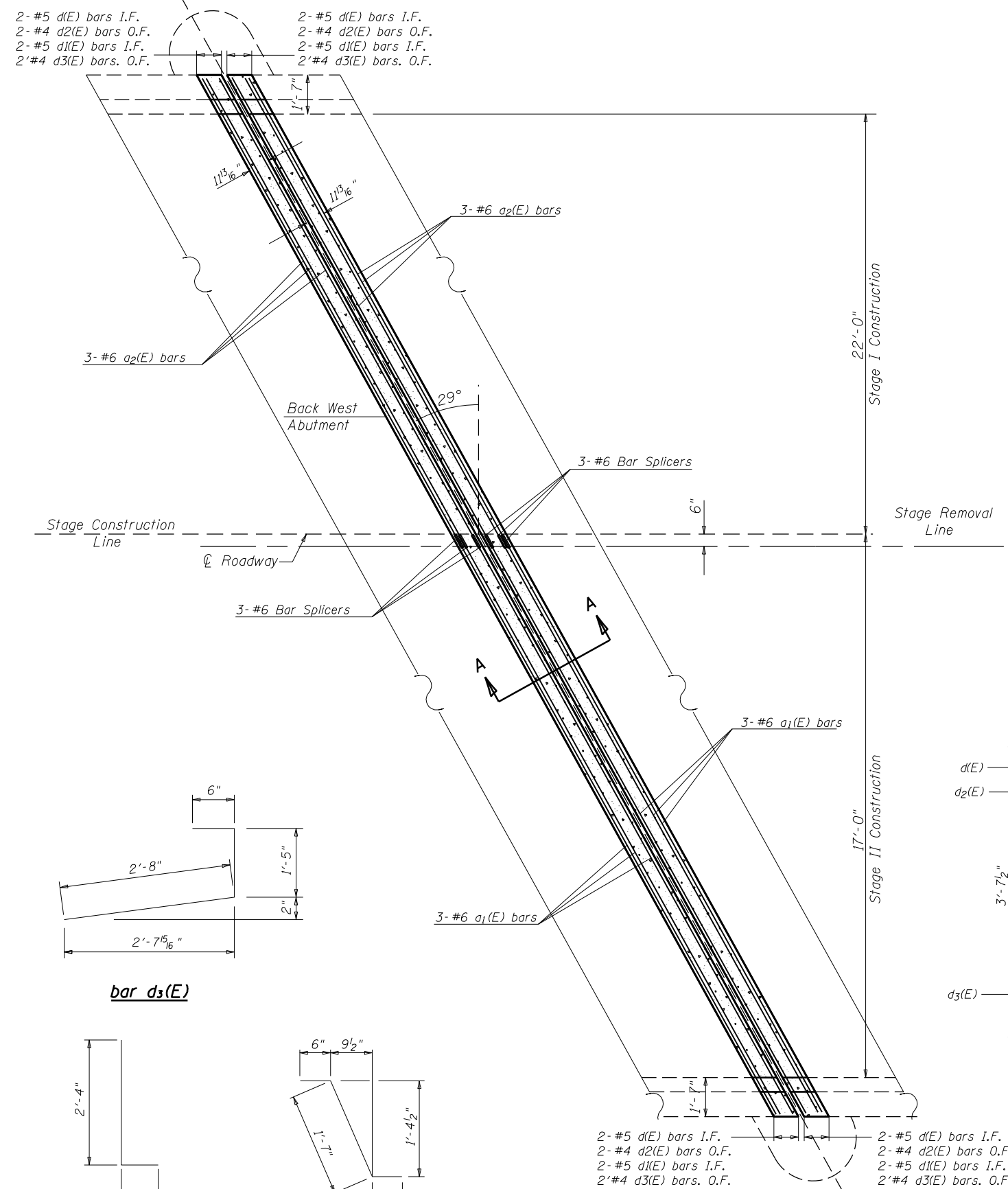
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px:\1ldot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\MS8-sh-t-StructurePlans		CHECKED -	REVISED - -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED - -
	PLOT DATE = 9/27/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

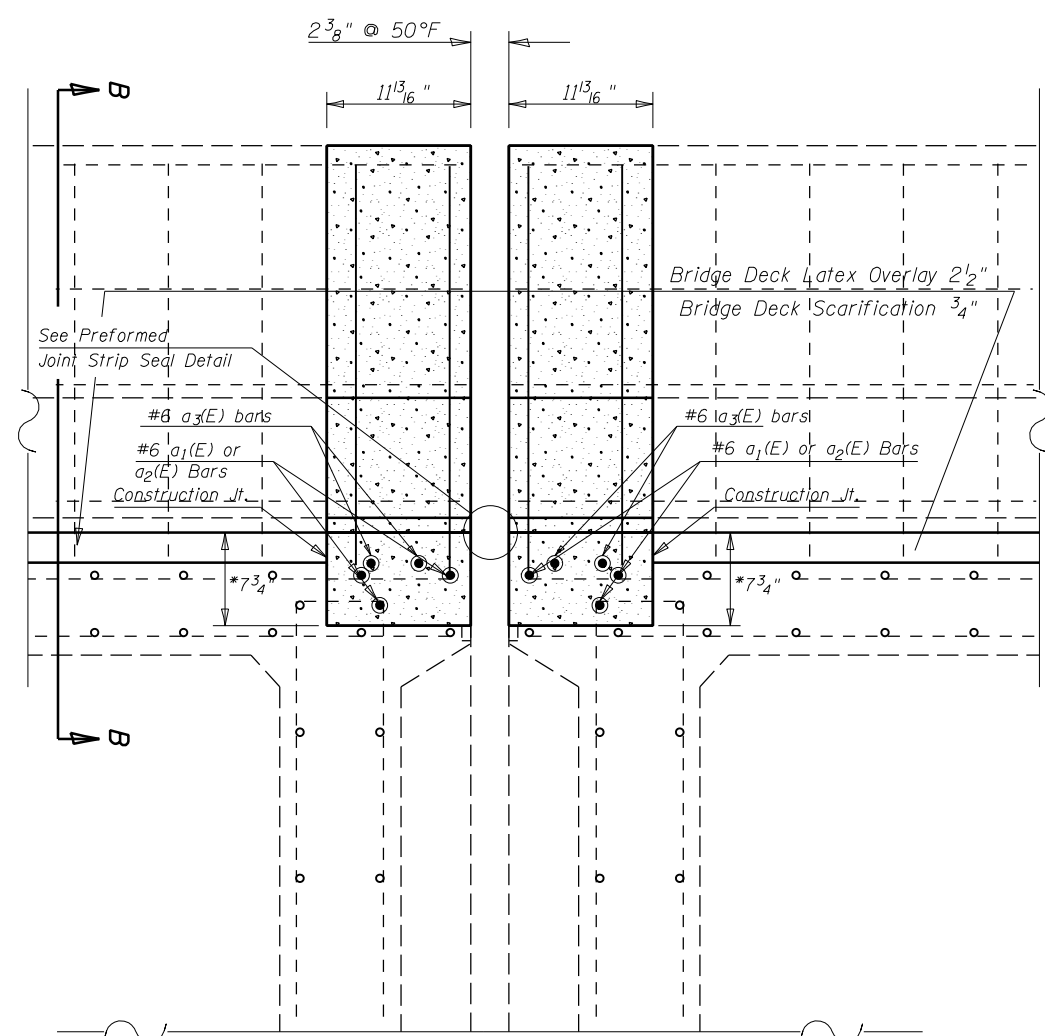
**DETAIL OF STRUCTURAL CONCRETE REMOVAL PIER 1
S.N.(s) 010-0027 & 0028**

SCALE: NONE SHEET NO. 3 OF 8 SHEETS STA. _____ TO STA. _____

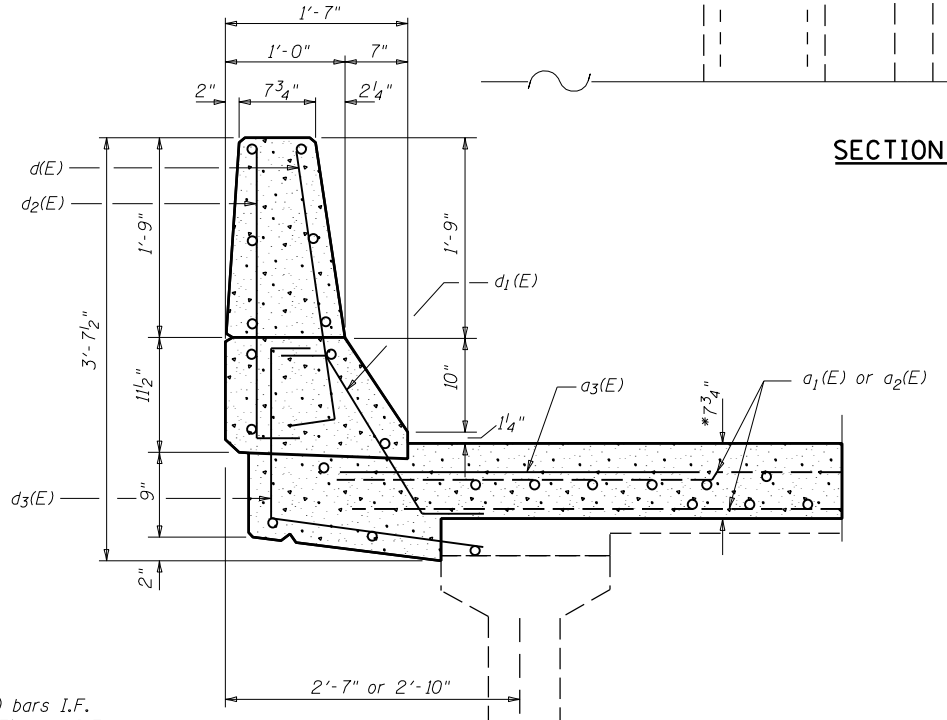
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	13
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



PLAN VIEW



SECTION A-A



SECTION B-B

*Prior to 1/4" Diamond Grinding

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0027 shown, 010-0028 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

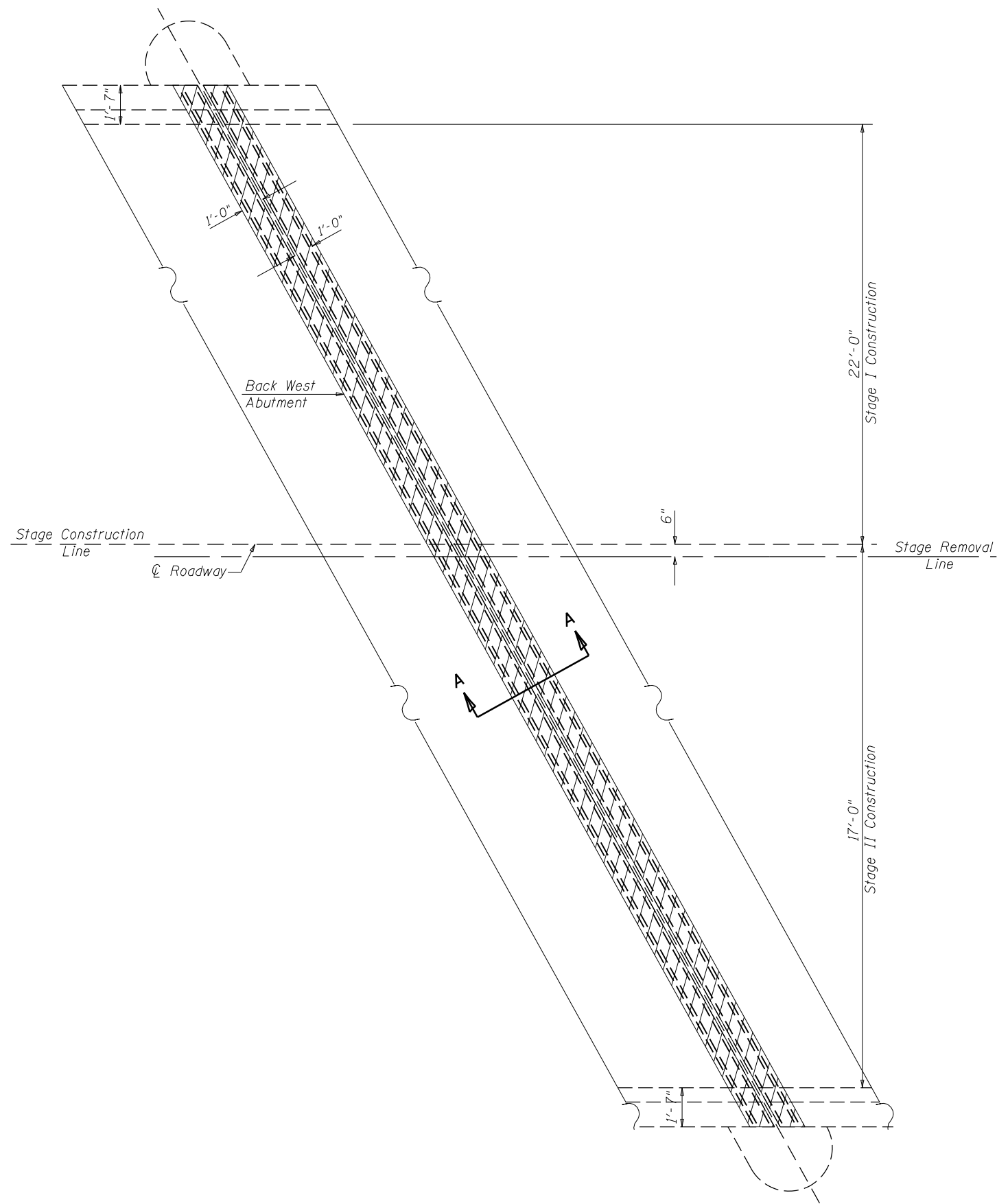
Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	26'-9"	—
a ₂ (E)	12	#6	21'-2"	—
a ₃ (E)	8	#6	5'-0"	—
d(E)	8	#5	2'-10"	┘
d ₁ (E)	8	#5	2'-7"	┘
d ₂ (E)	8	#4	2'-10"	┘
d ₃ (E)	8	#4	4'-7"	┘
Reinforcement Bars, Epoxy Coated		Pound	1,030.0	
Bar Splicers		Each	12.0	
Concrete Superstructures		Cu Yd	5.0	

FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -
px:\11dot-pw.bentley.com\PROJECTS\DOT\Offices\District 5\Projects\0570E48\CDRAWN\Structures\MS8-sh1-StructurePlans		CHECKED -	REVISED - -
		DATE - 030518	REVISED - -

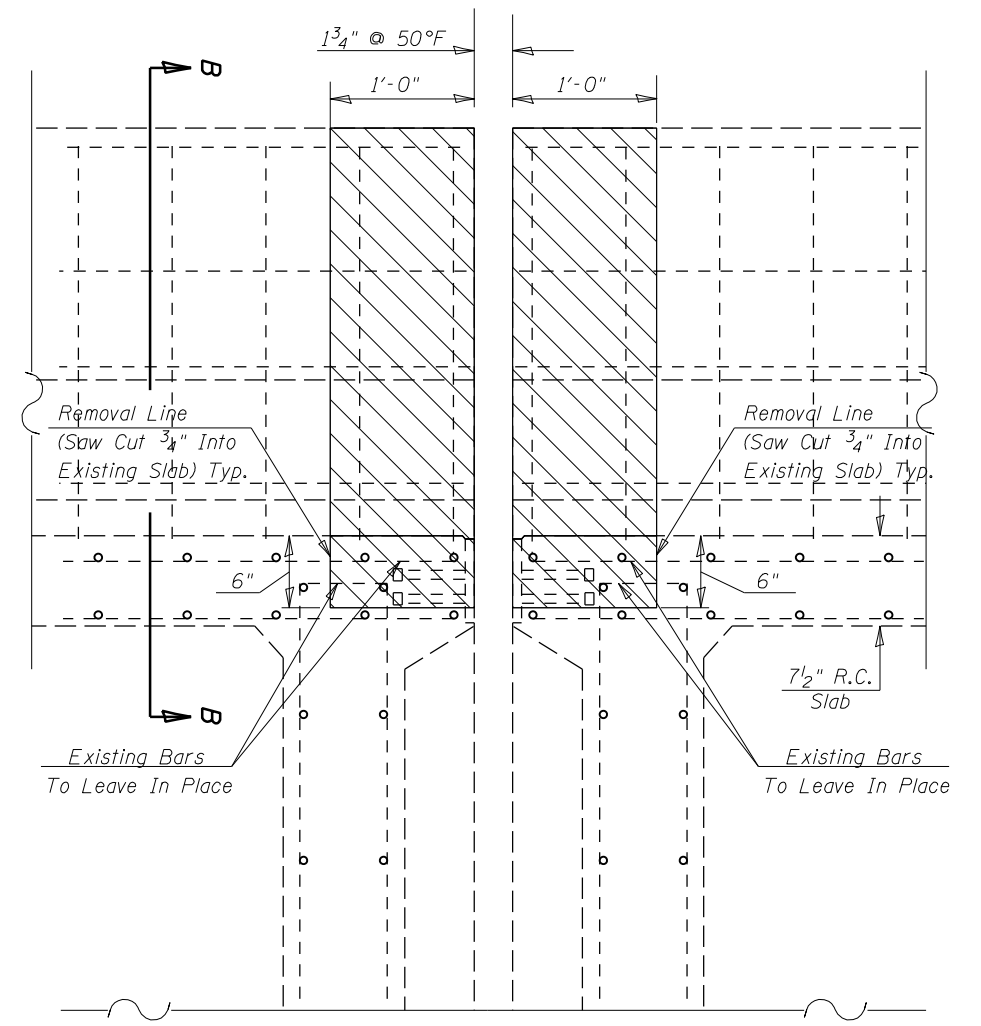
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF CONCRETE SUPERSTRUCTURE PIER 1		
S.N.(s) 010-0027 & 0028		
SCALE: NONE	SHEET NO. 4 OF 8 SHEETS	STA. _____ TO STA. _____

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	14
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



PLAN VIEW
West Abutment Shown
East Abutment similar by rotation



SECTION A-A

LEGEND:
 Concrete Removal

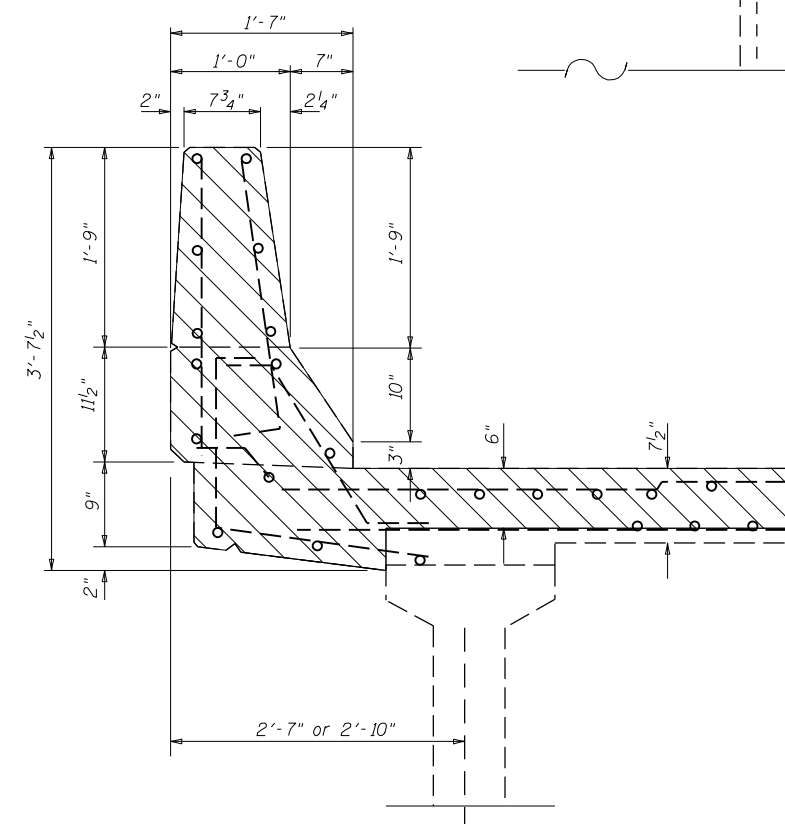
NOTE:
 S.N. 010-0027 shown, 010-0028 similar.
 Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	4.0



SECTION B-B

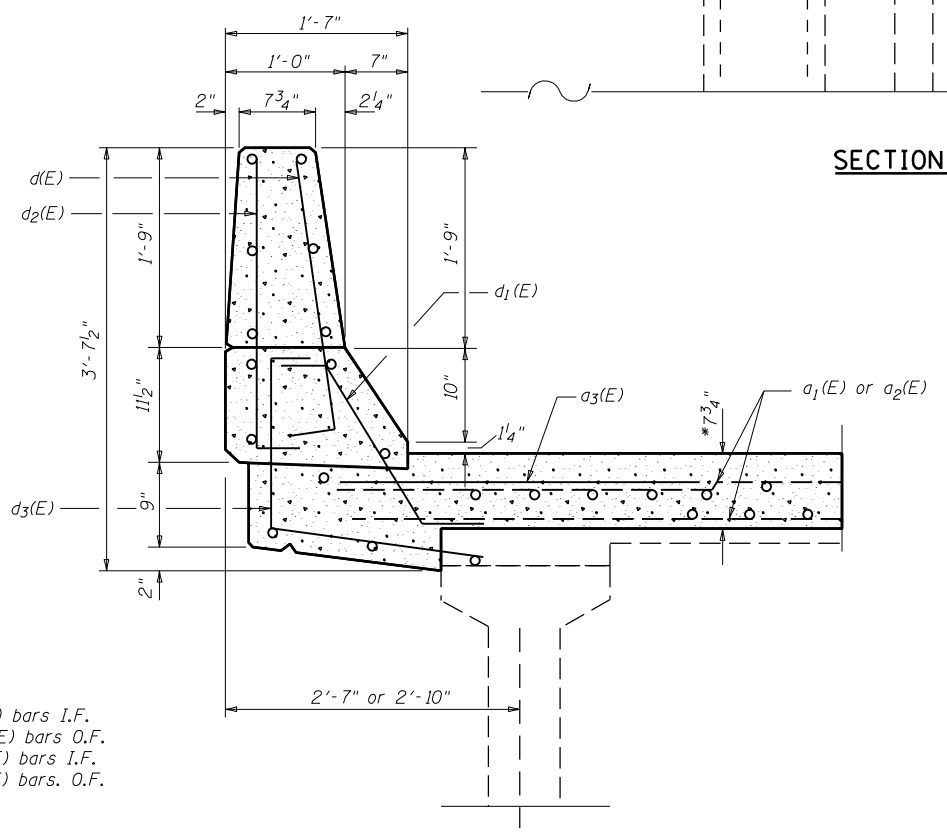
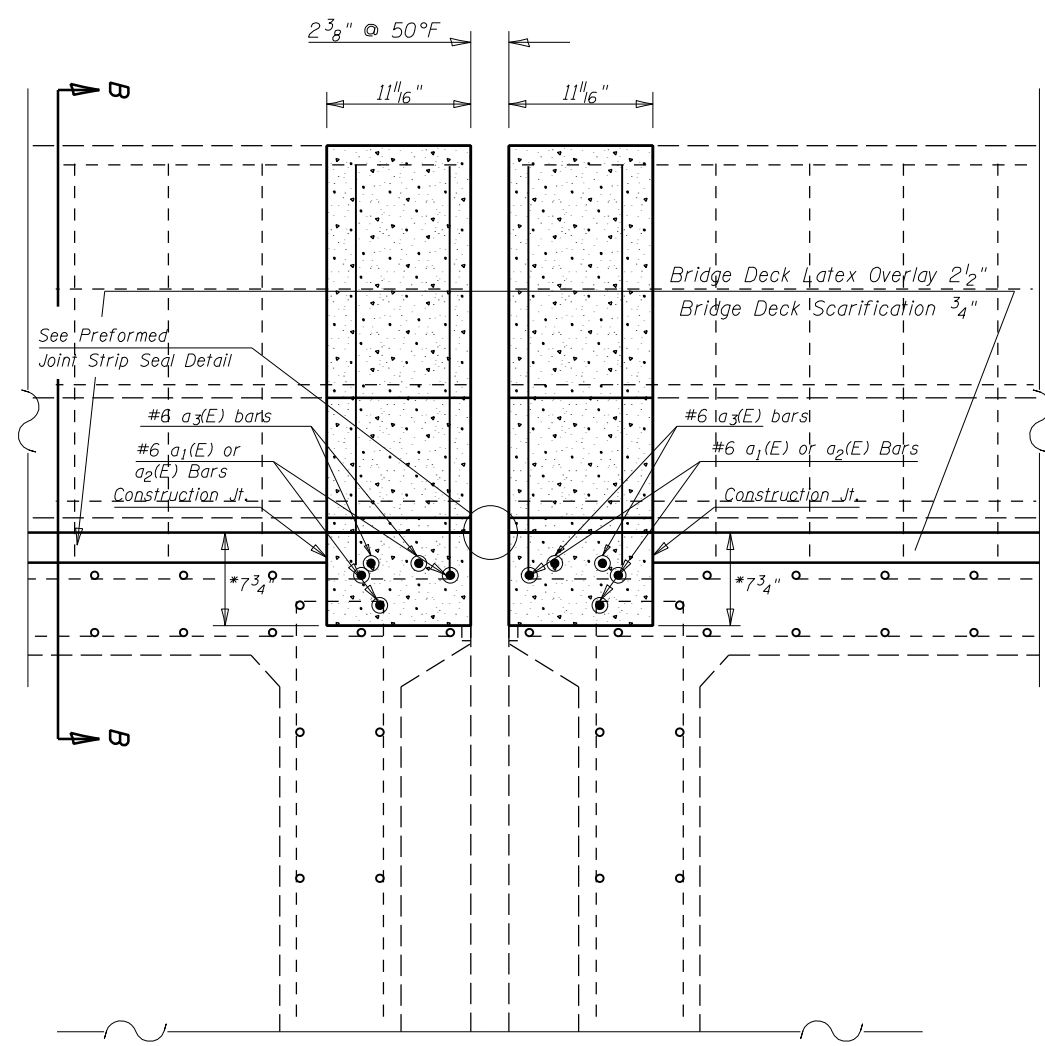
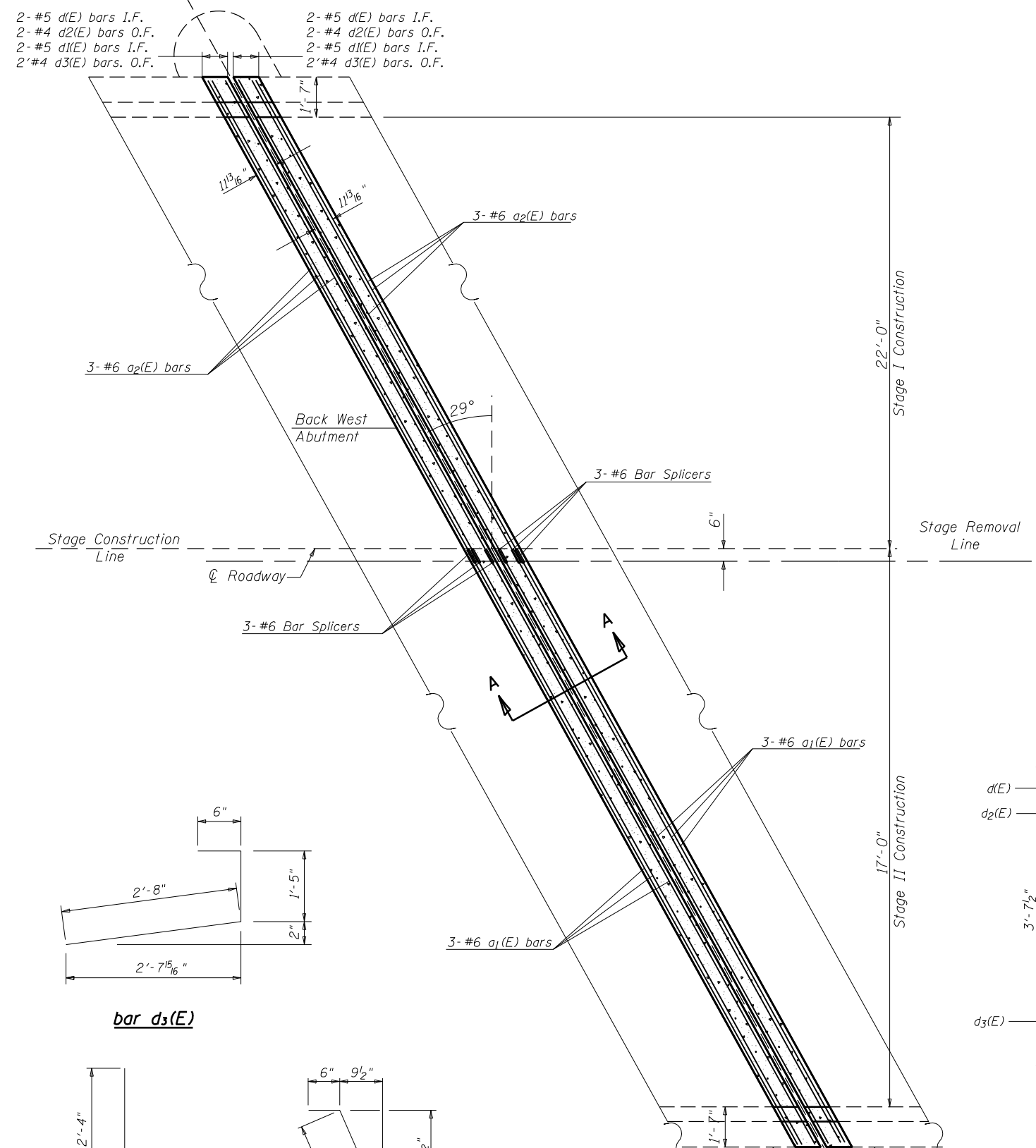
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		DATE - 030518	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REMOVAL PIER 2
S.N.(s) 010-0027 & 0028**

SCALE: NONE SHEET NO. 5 OF 8 SHEETS STA. _____ TO STA. _____

F.A.L. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	15
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



*Prior to 1/4" Diamond Grinding

LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0027 shown, 010-0028 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

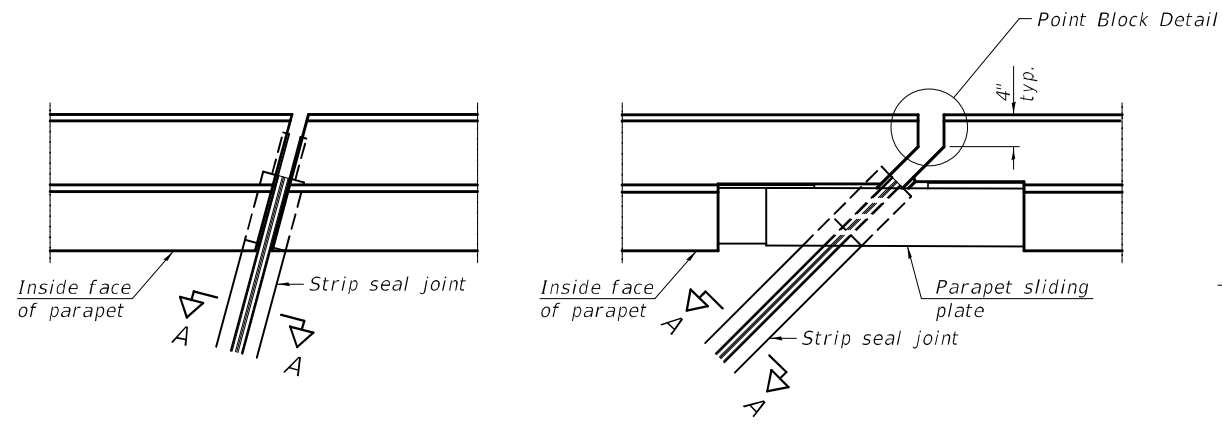
Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	26'-9"	—
a ₂ (E)	12	#6	21'-2"	—
a ₃ (E)	8	#6	5'-0"	—
d(E)	8	#5	2'-10"	┘
d ₁ (E)	8	#5	2'-7"	┘
d ₂ (E)	8	#4	2'-10"	┘
d ₃ (E)	8	#4	4'-7"	┘
Reinforcement Bars, Epoxy Coated		Pound	1,030.0	
Bar Splicers		Each	12.0	
Concrete Superstructures		Cu Yd	5.0	

FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -
px:\1\dot-pw.bentley.com\PROJECTS\DOT\District 5\Projects\0570E48\CDRAWN\Structures\MS8-shr-StructurePlans		CHECKED -	REVISED - -
		DATE - 030518	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF CONCRETE SUPERSTRUCTURE PIER 2		
S.N.(s) 010-0027 & 0028		
SCALE: NONE	SHEET NO. 6 OF 8 SHEETS	STA. _____ TO STA. _____

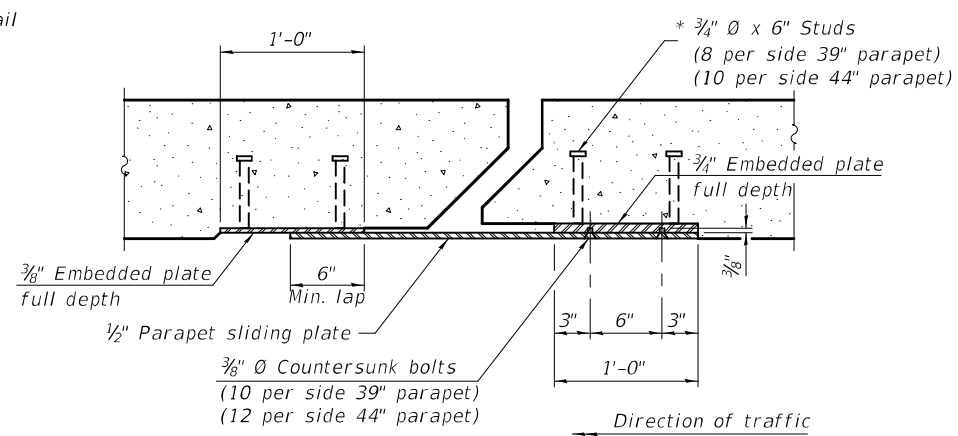
F.A.L. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	16
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



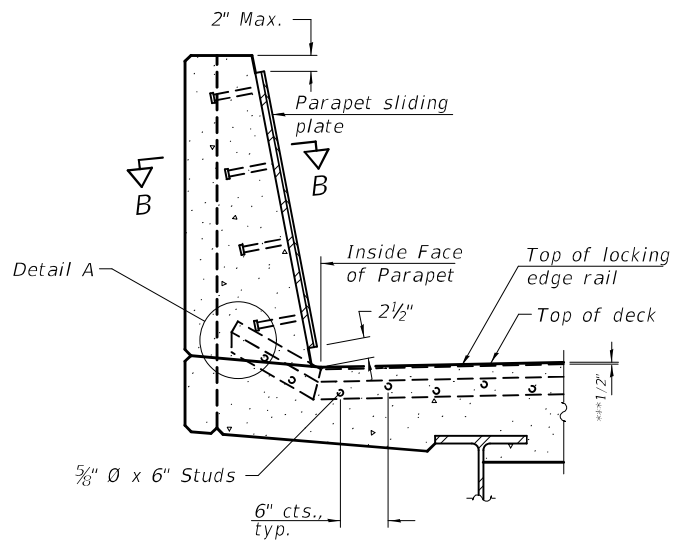
FOR SKEWS $\leq 30^\circ$

FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

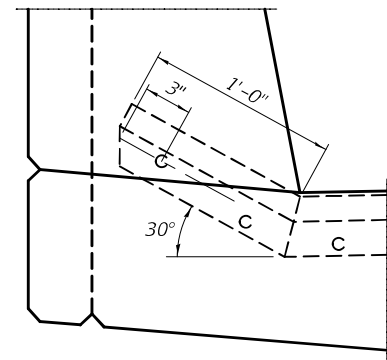


SECTION B-B

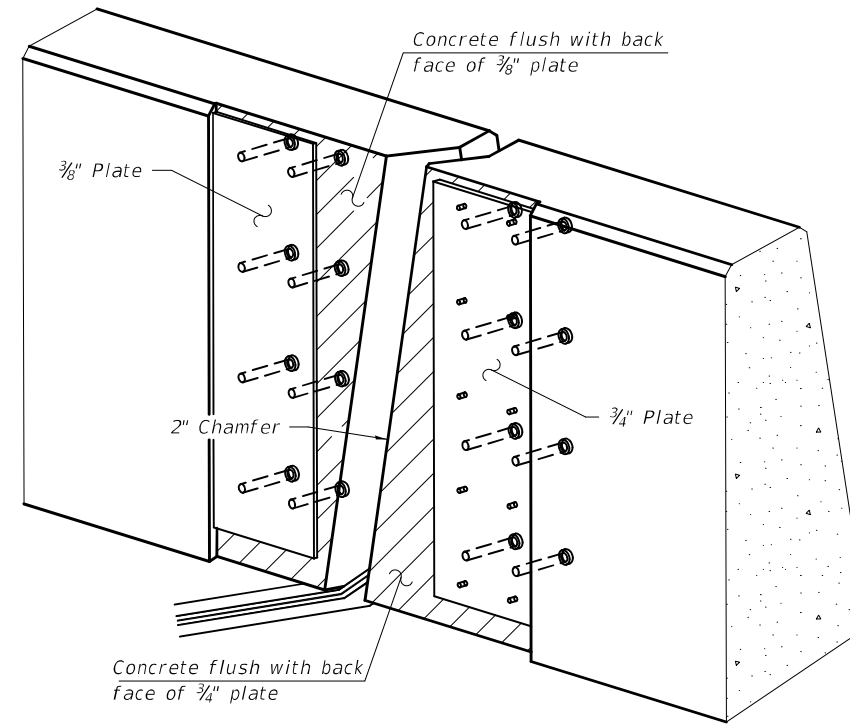


SECTION AT PARAPET

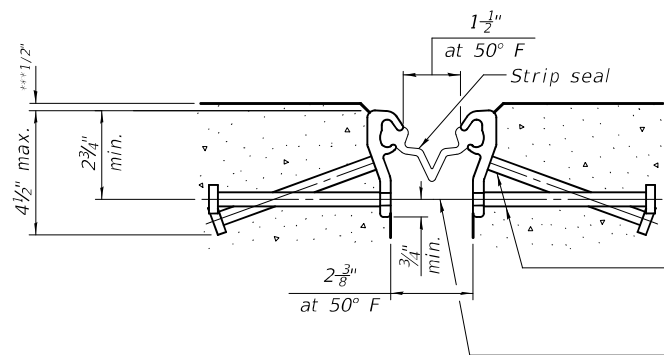
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

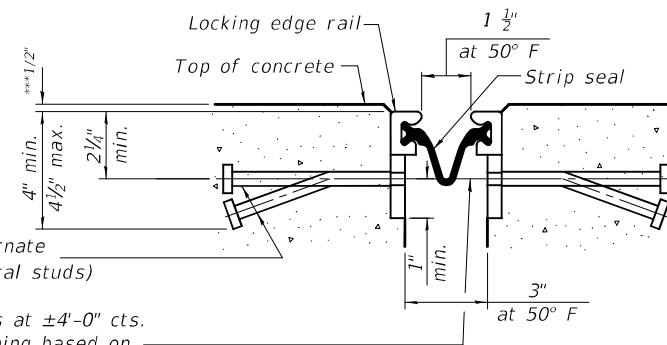


TRIMETRIC VIEW
(Showing embedded plates only)

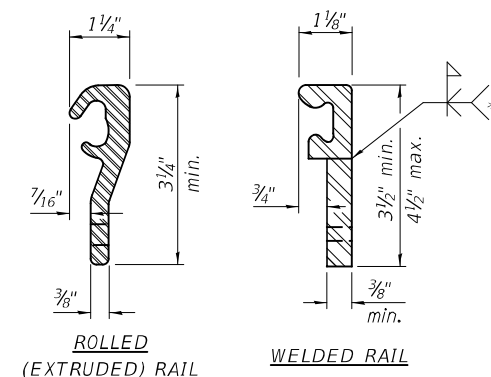


SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " \varnothing x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $\frac{3}{8}$ " \varnothing threaded rods in $\frac{7}{16}$ " \varnothing holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

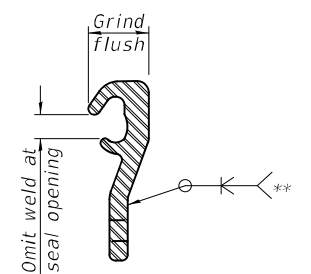


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	373.0

FILE NAME =	USER NAME = #USER*	DESIGNED - JMS	REVISED - -
#FILE#		DRAWN - JMS	REVISED - -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

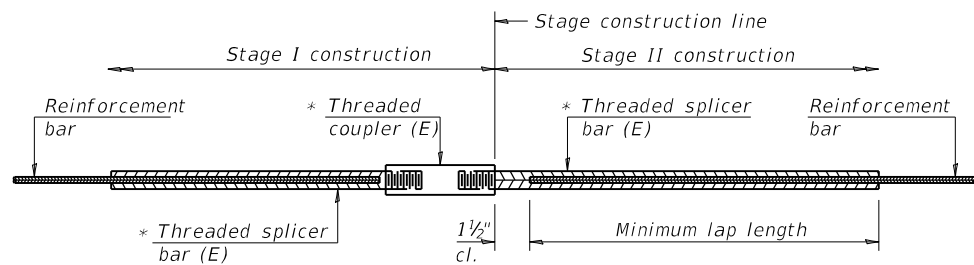
DETAIL OF STRIP SEAL JOINT
S.N.(s) 010-0027, 0028,

SCALE: NONE SHEET NO. 7 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	17
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

*** Prior to Diamond Grinding

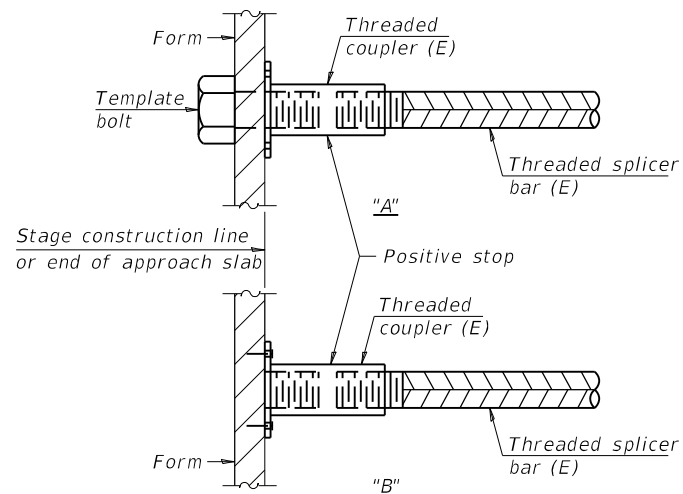


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

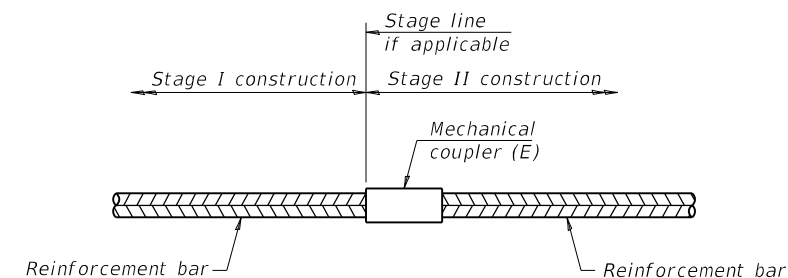
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
East Abutment	#6	10.0	4'-0"
West Abutment	#6	10.0	4'-0"
Pier #1	#6	12.0	4'-10"
Pier #2	#6	12.0	4'-10"



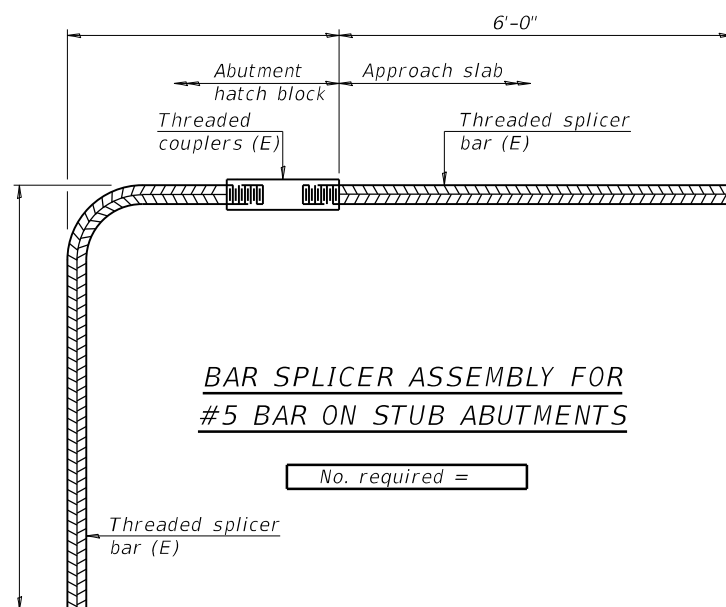
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: \\MODELS\MAME\...
 FILE: \\MODELS\MAME\...

BSD-1

2-17-2017

USER NAME = shererjm	DESIGNED - JMS	REVISED - _____
DRAWN - JMS	REVISIONS - _____	
PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = 11/15/2021	DATE - 042621	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

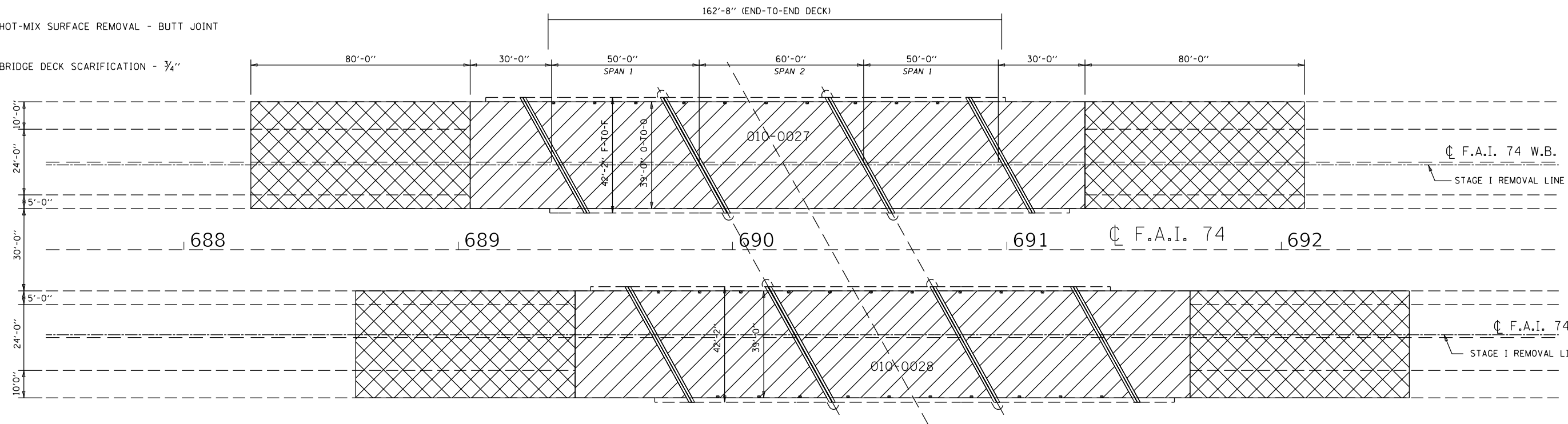
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N.(s) 010-0027 & 0028

SCALE: NONE SHEET 8 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	18
			CONTRACT NO. 70E48	
ILLINOIS FED. AID PROJECT				

☒ HOT-MIX SURFACE REMOVAL - BUTT JOINT

▨ BRIDGE DECK SCARIFICATION - 3/4"



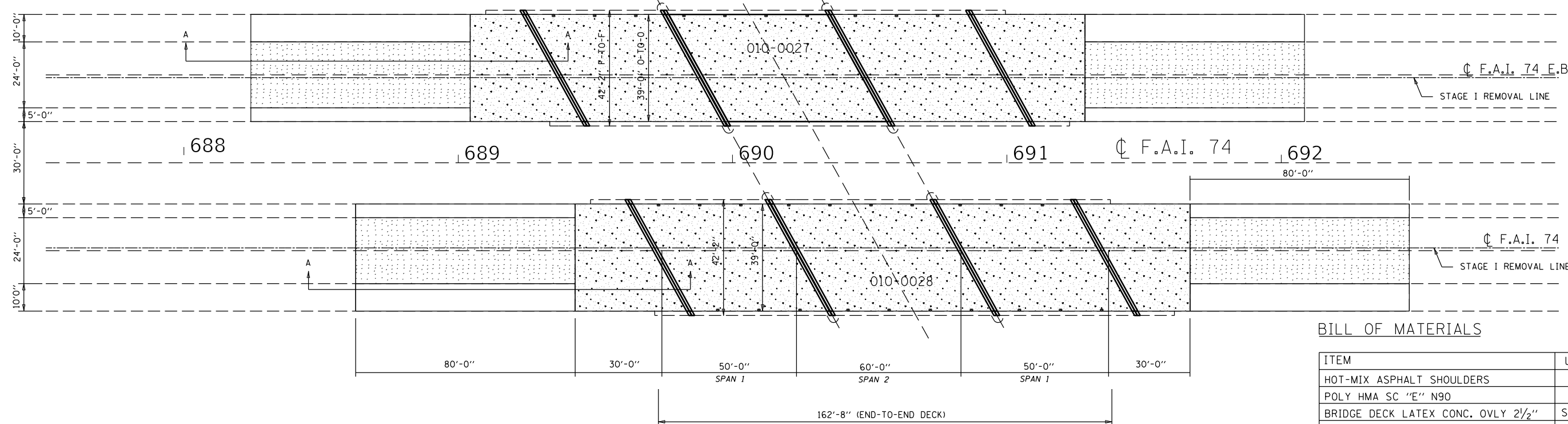
BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - 3/4"	SQ YD	1,868.0
HMA SURFACE REMOVAL - BUTT JOINT	SQ YD	1,388.0

☐ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90

☐ HOT-MIX ASPHALT SHOULDERS

☐ BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"



BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS	TON	45.0
POLY HMA SC "E" N90	TON	72.0
BRIDGE DECK LATEX CONC. OVLY 2 1/2"	SQ YD	1,868.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,758.0
DIAMOND GRINDING BRIDGE DECK	SQ YD	1,678.0

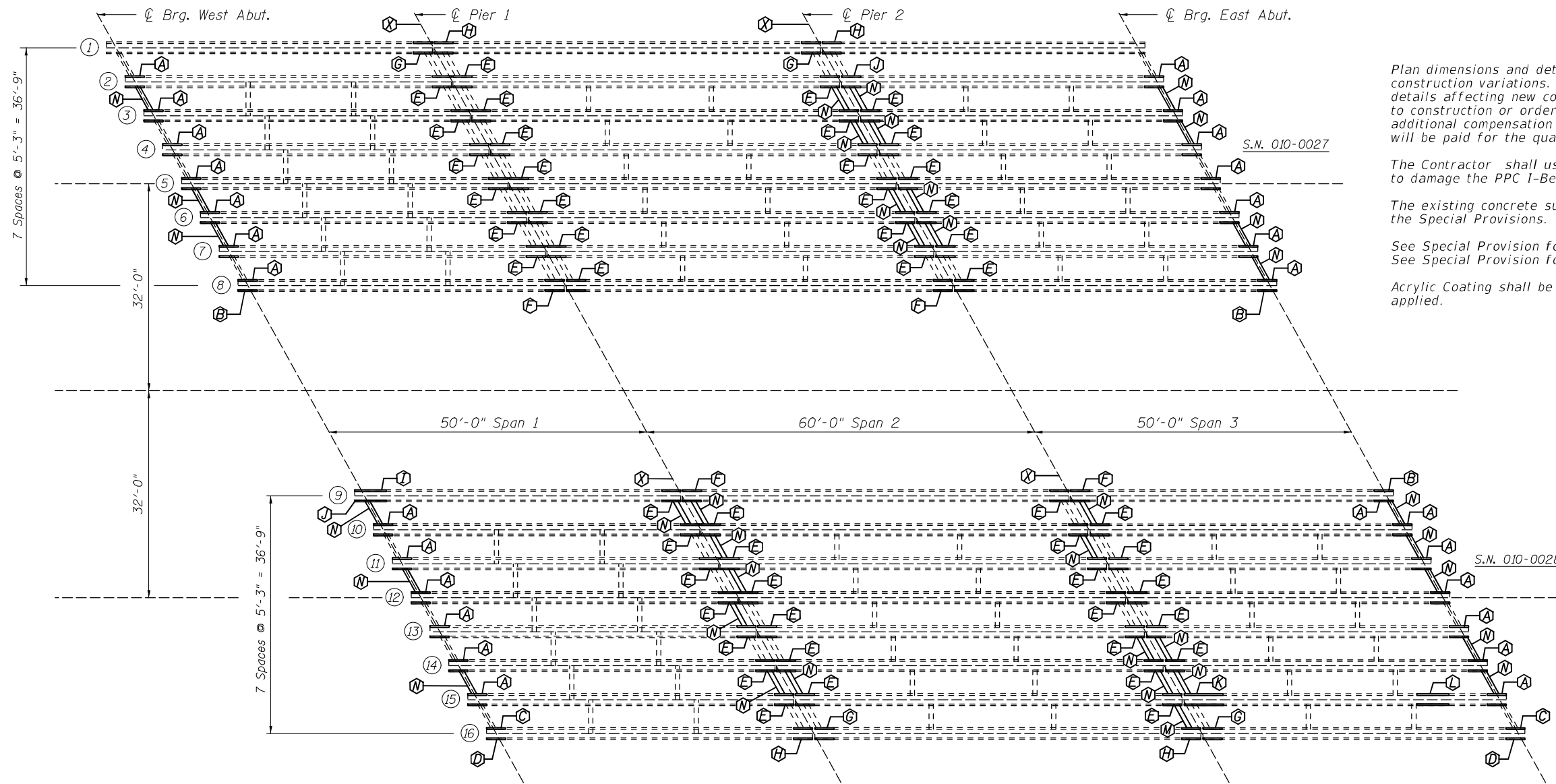
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		DATE - 030518	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAIL
S.N.(s) 010-0027 & 0028**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	19
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provision for "FRP Strengthening for PPC I-Beam Repairs".
See Special Provision for "Precast Prestressed I-Beam Repairs".

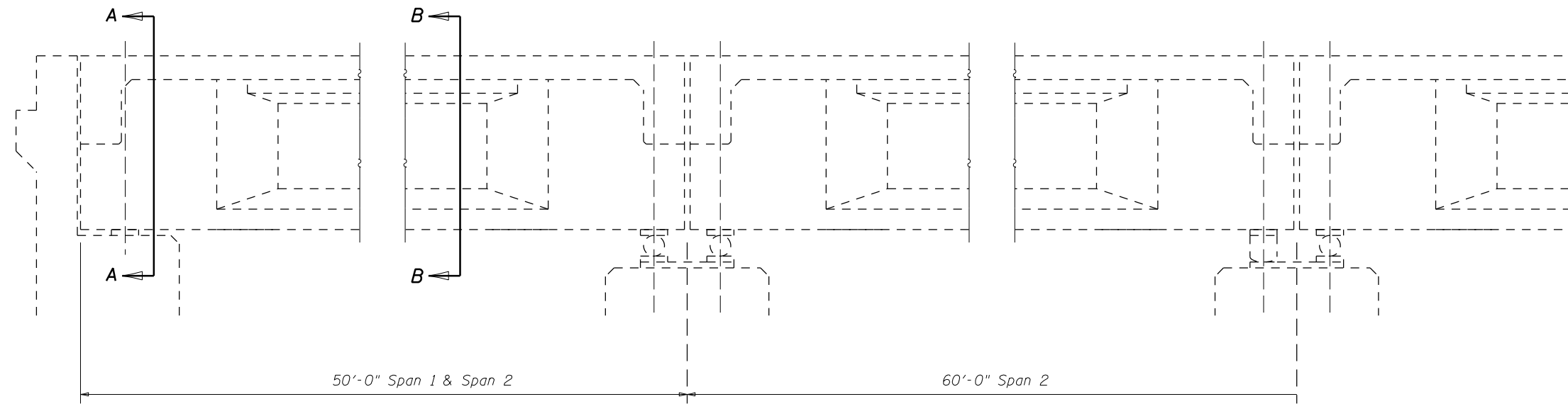
Acrylic Coating shall be placed over the Fiber Wrap repairs. Two Coats shall be applied.

FRAMING PLAN

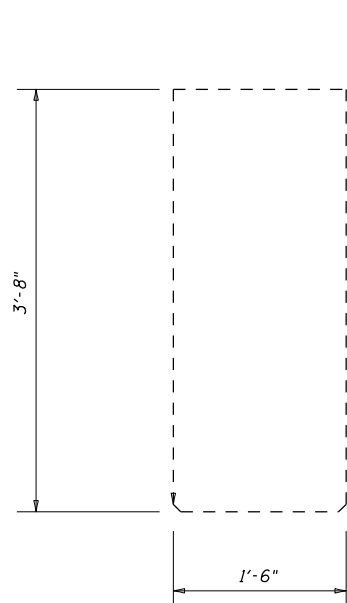
- Ⓐ - Location of PPC I-Beam Repair - Repair A
- Ⓑ - Location of PPC I-Beam Repair - Repair B
- Ⓒ - Location of PPC I-Beam Repair - Repair C
- Ⓓ - Location of PPC I-Beam Repair - Repair D
- Ⓔ - Location of PPC I-Beam Repair - Repair E
- Ⓕ - Location of PPC I-Beam Repair - Repair F
- Ⓖ - Location of PPC I-Beam Repair - Repair G
- Ⓗ - Location of PPC I-Beam Repair - Repair H
- Ⓘ - Location of PPC I-Beam Repair - Repair I
- Ⓝ - Location of PPC I-Beam Repair - Repair J
- Ⓚ - Location of PPC I-Beam Repair - Repair K
- Ⓛ - Location of PPC I-Beam Repair - Repair L
- Ⓜ - Location of Diaphragm Repair at Abutments & Piers - Repair M
- Ⓝ - Location of Diaphragm Repair at Abutments & Piers - Repair N
- Ⓧ - Bearing Removal & Replacement (Beams 1-16)

BILL OF MATERIAL

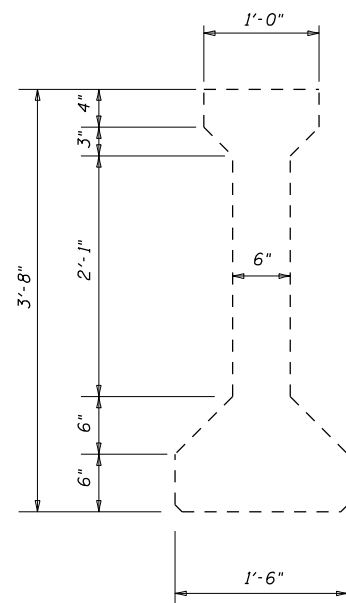
Item	Unit	Total
Concrete Removal	Cu. Yd.	5.4
Concrete Superstructure	Cu. Yd.	5.4
Acrylic Coating	Sq. Yd.	185.0
Fiber Wrap	Sq. Ft.	1,658.0
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	378.0



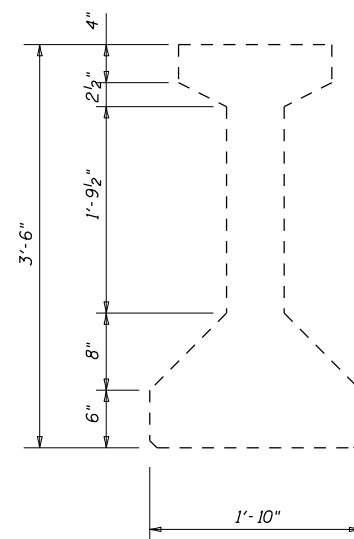
TYPICAL PART LONGITUDINAL SECTION



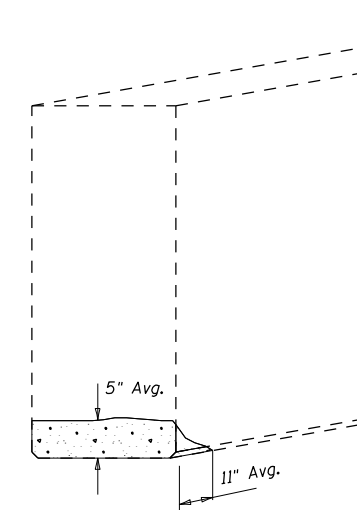
SECTION A-A
1959 Beams



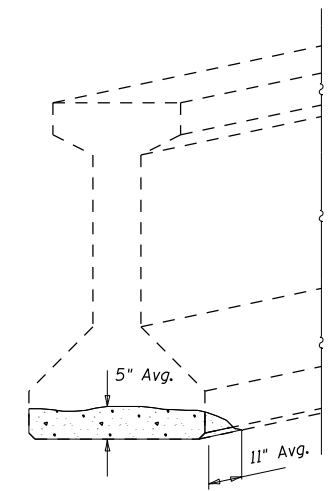
SECTION A-A
1959 Beams



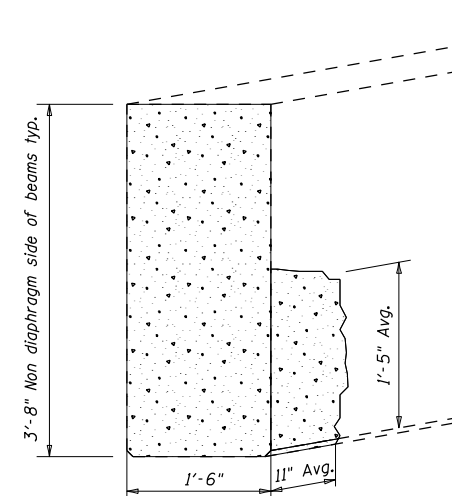
CROSS-SECTION
Outside Beams 1993 Construction



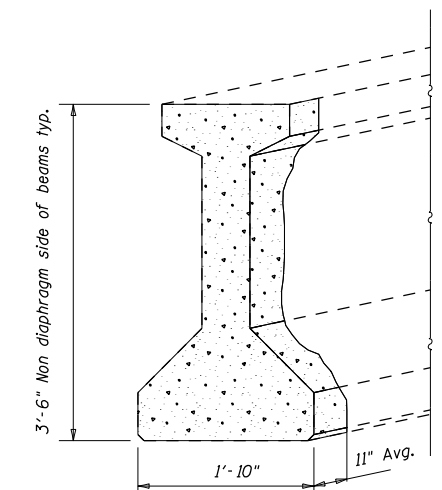
TYPICAL DAMAGE AT BEAM ENDS
1959 Beams at Abutments



TYPICAL DAMAGE AT BEAM ENDS
1993 Beams at Abutments



TYPICAL DAMAGE AT BEAM ENDS
1959 Beams over Piers



TYPICAL DAMAGE AT BEAM ENDS
1993 Beams over Piers

FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN Structures\JMS\8-sh1-StructurePlans	REVISOR = JMS	CHECKED -	REVISED - -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED - -
	PLOT DATE = 9/27/2021		

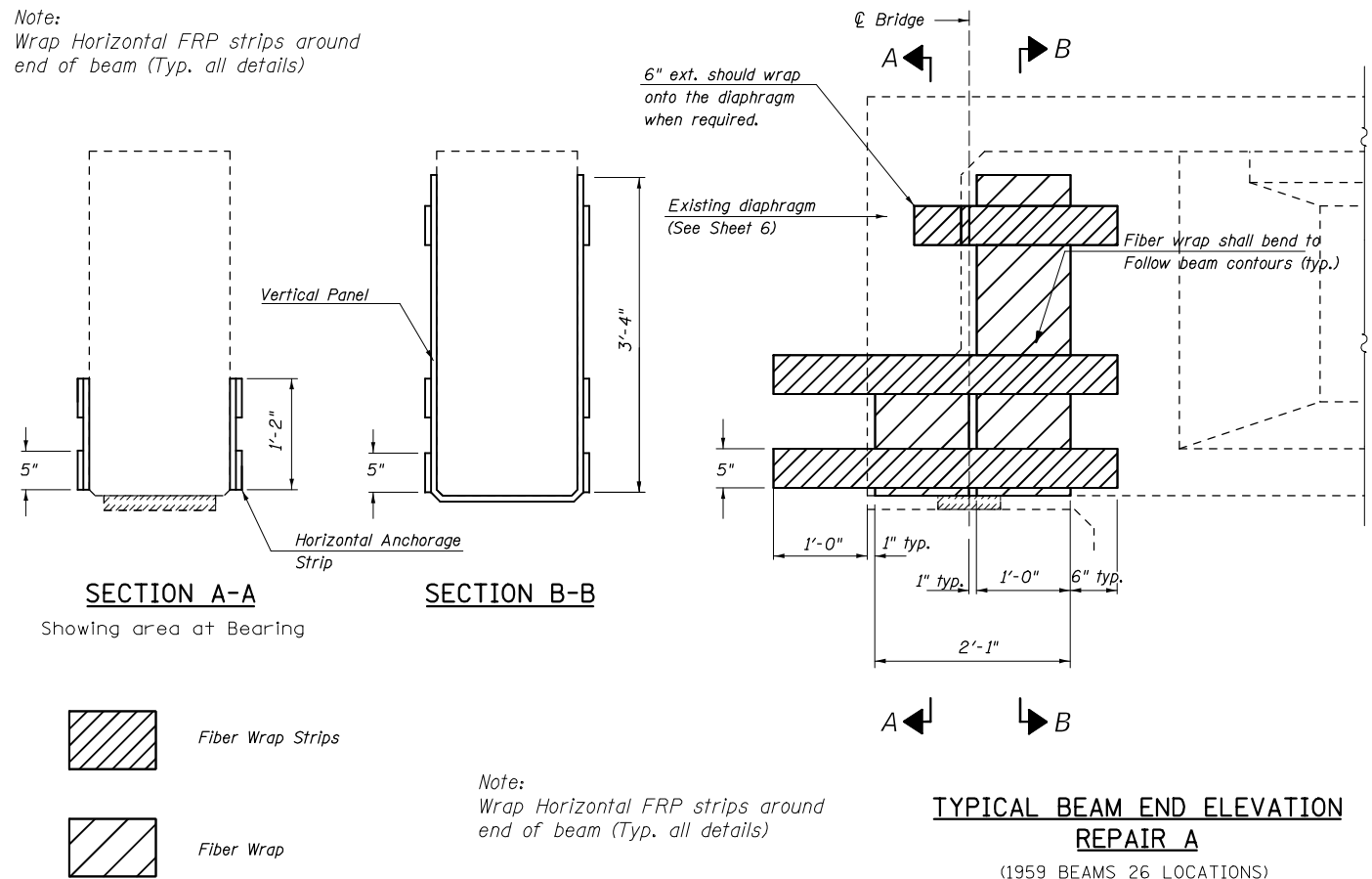
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRP REPAIR DETAILS
S.N.(s) 010-0027 & 0028**

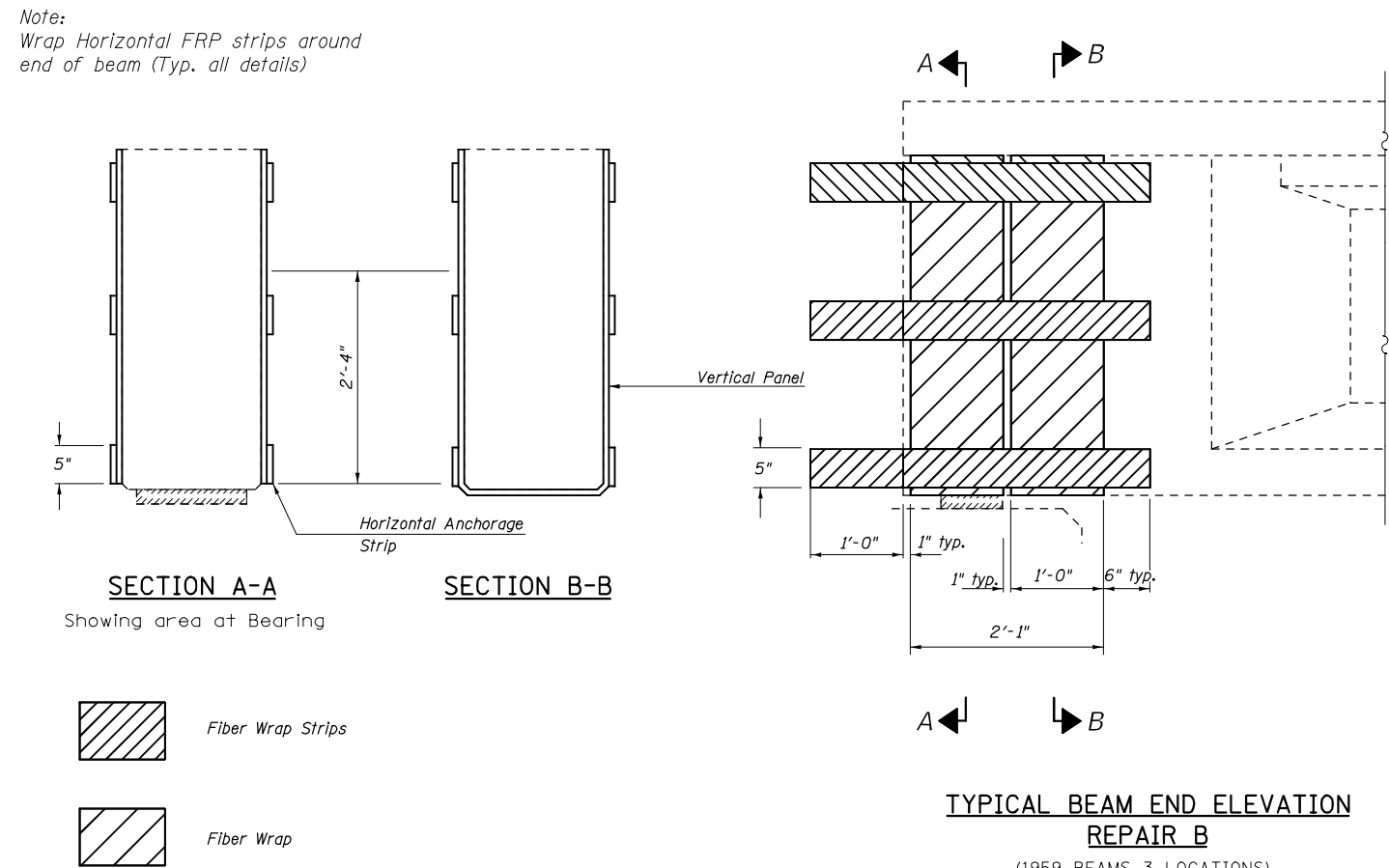
SCALE: NONE SHEET NO. 2 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	21
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				

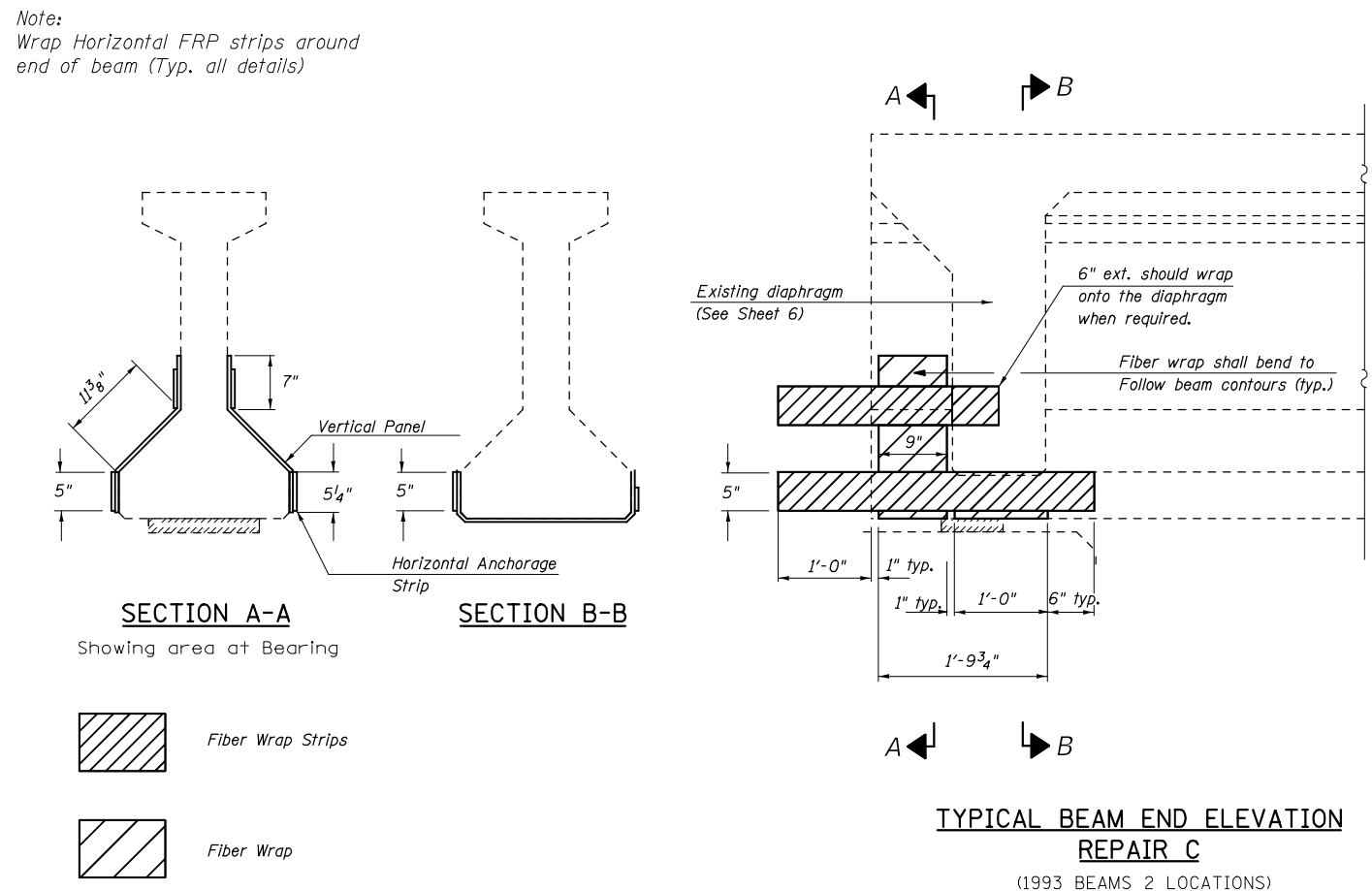
Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)



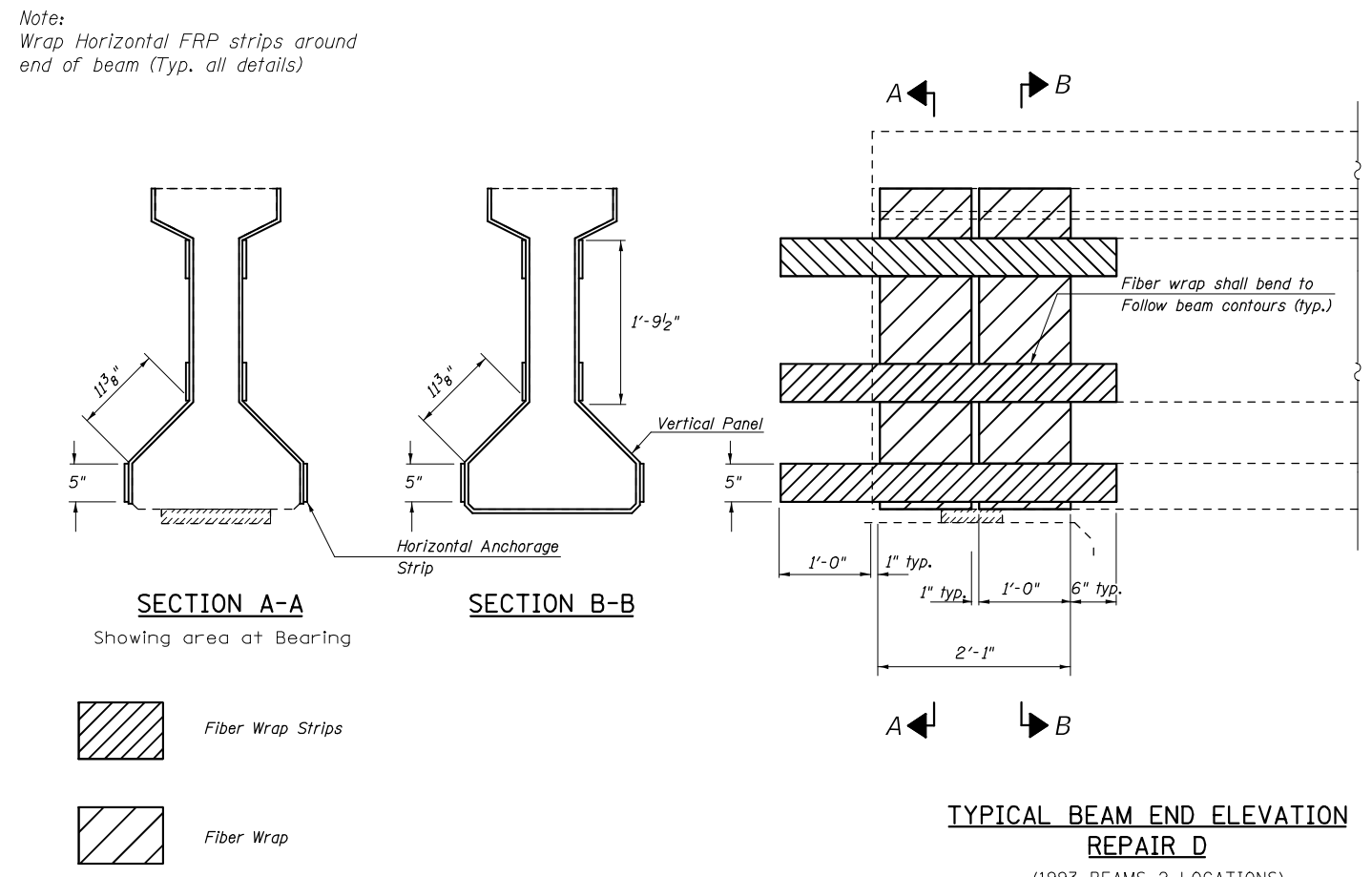
Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)



Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)



Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)



FILE NAME =	USER NAME = #USER#	DESIGNED - JMS	REVISED - -
#FILE#		DRAWN - JMS	REVISED - -
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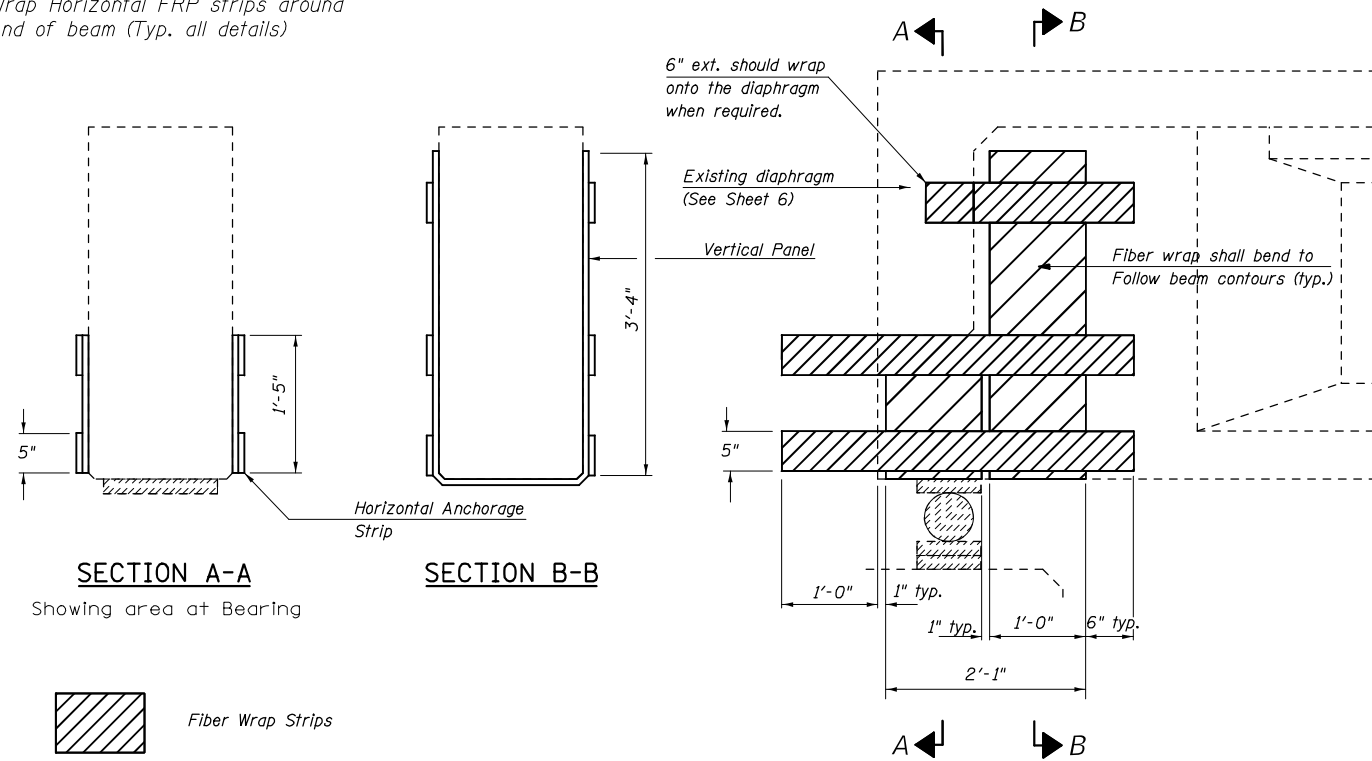
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRP REPAIR DETAILS
S.N.(s) 010-027 & 0028

SCALE: NONE SHEET NO. 3 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	22
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				

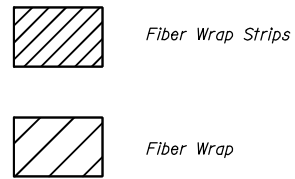
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



SECTION A-A

Showing area at Bearing

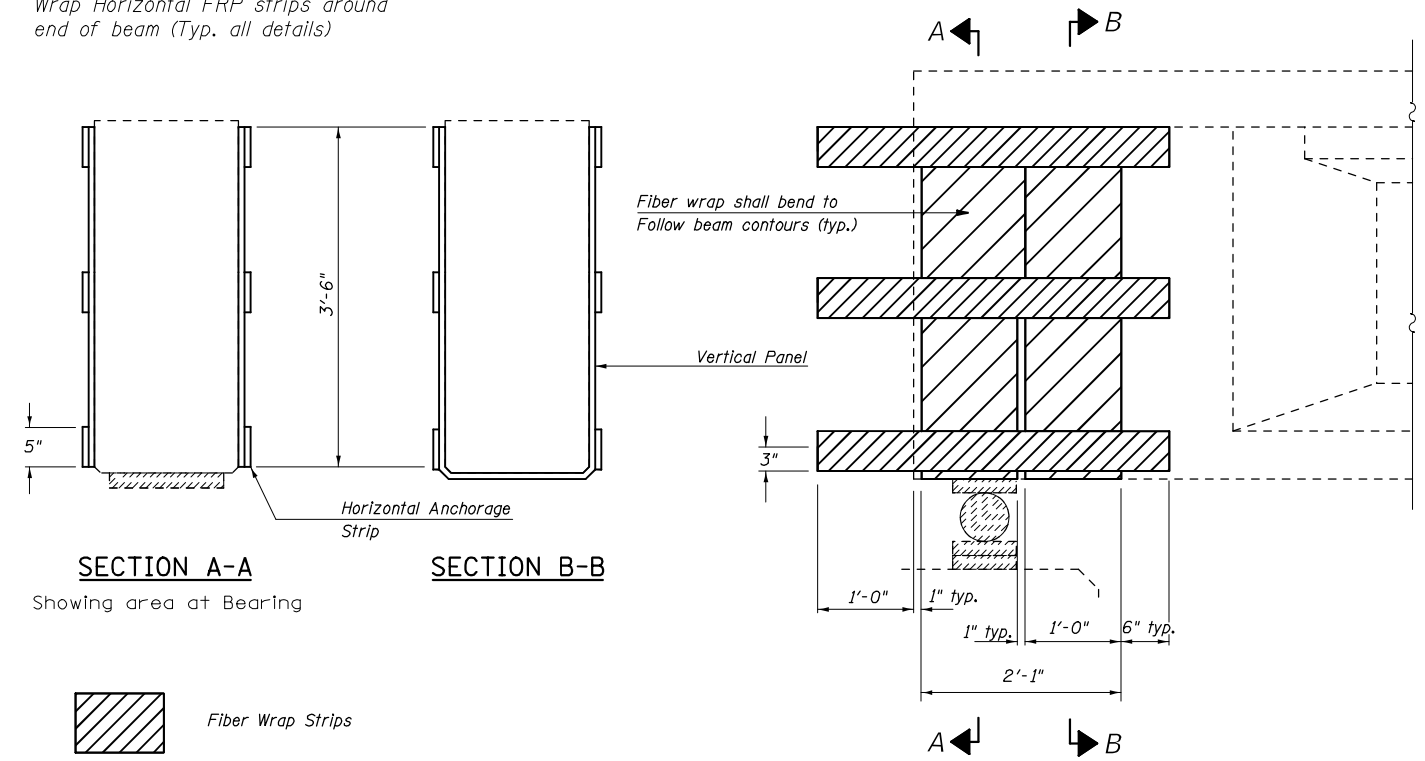
SECTION B-B



**TYPICAL BEAM END ELEVATION
REPAIR E**

(1959 BEAMS 26 LOCATIONS)

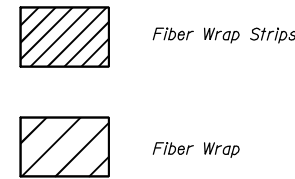
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



SECTION A-A

Showing area at Bearing

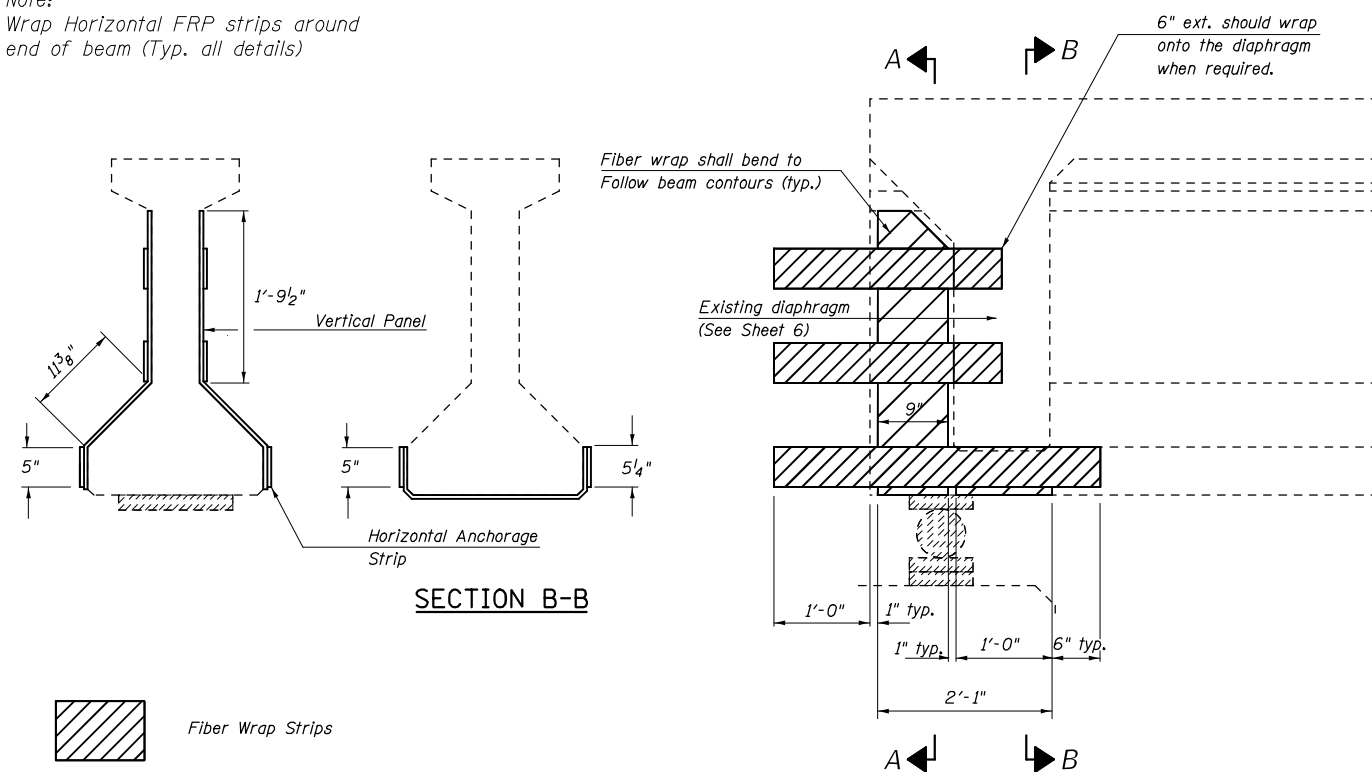
SECTION B-B



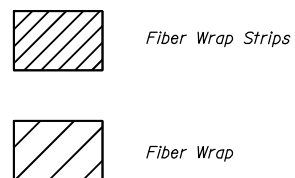
**TYPICAL BEAM END ELEVATION
REPAIR F**

(1959 BEAMS 8 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



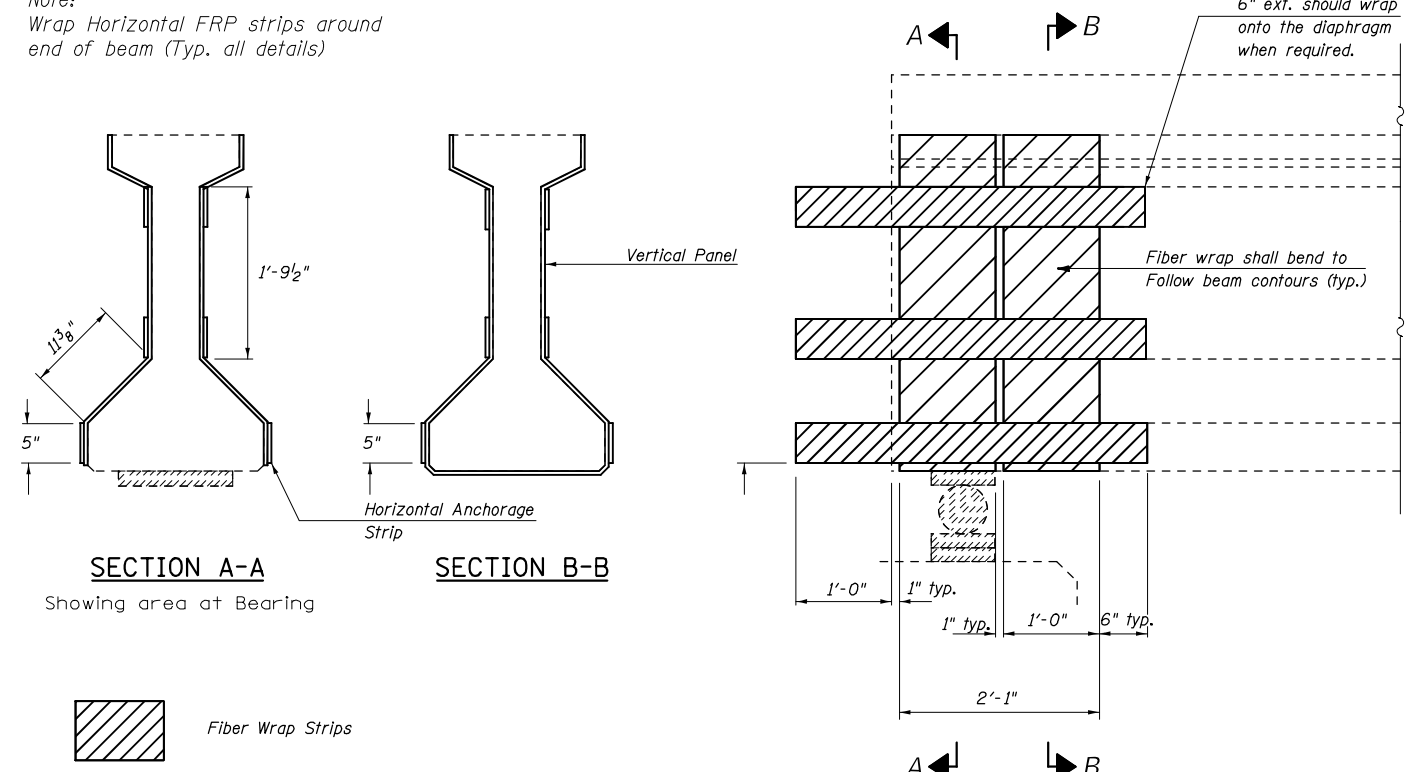
SECTION B-B



**TYPICAL BEAM END ELEVATION
REPAIR G**

(1993 BEAMS 8 LOCATIONS)

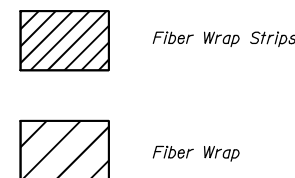
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



SECTION A-A

Showing area at Bearing

SECTION B-B



**TYPICAL BEAM END ELEVATION
REPAIR H**

(1993 BEAMS 8 LOCATIONS)

FILE NAME =	USER NAME = #USER#	DESIGNED - JMS	REVISED - -
#FILE#		DRAWN - JMS	REVISED - -
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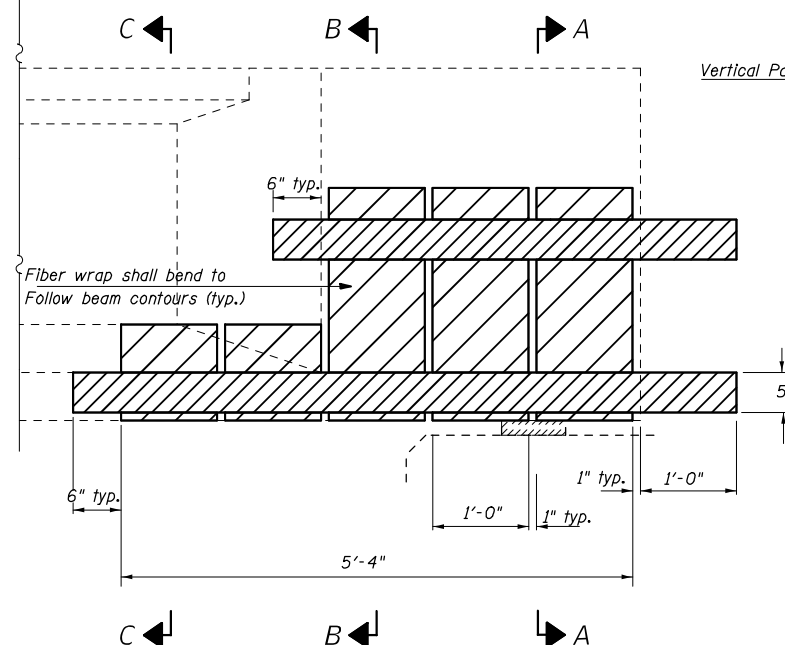
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRP REPAIR DETAILS
S.N.(s) 010-027 & 0028**

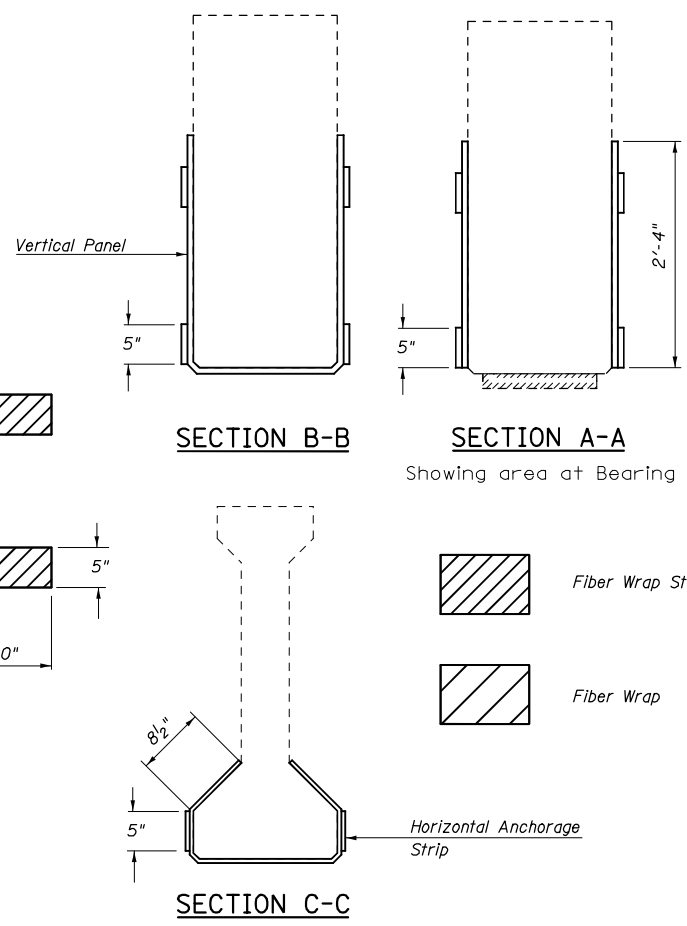
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	23
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

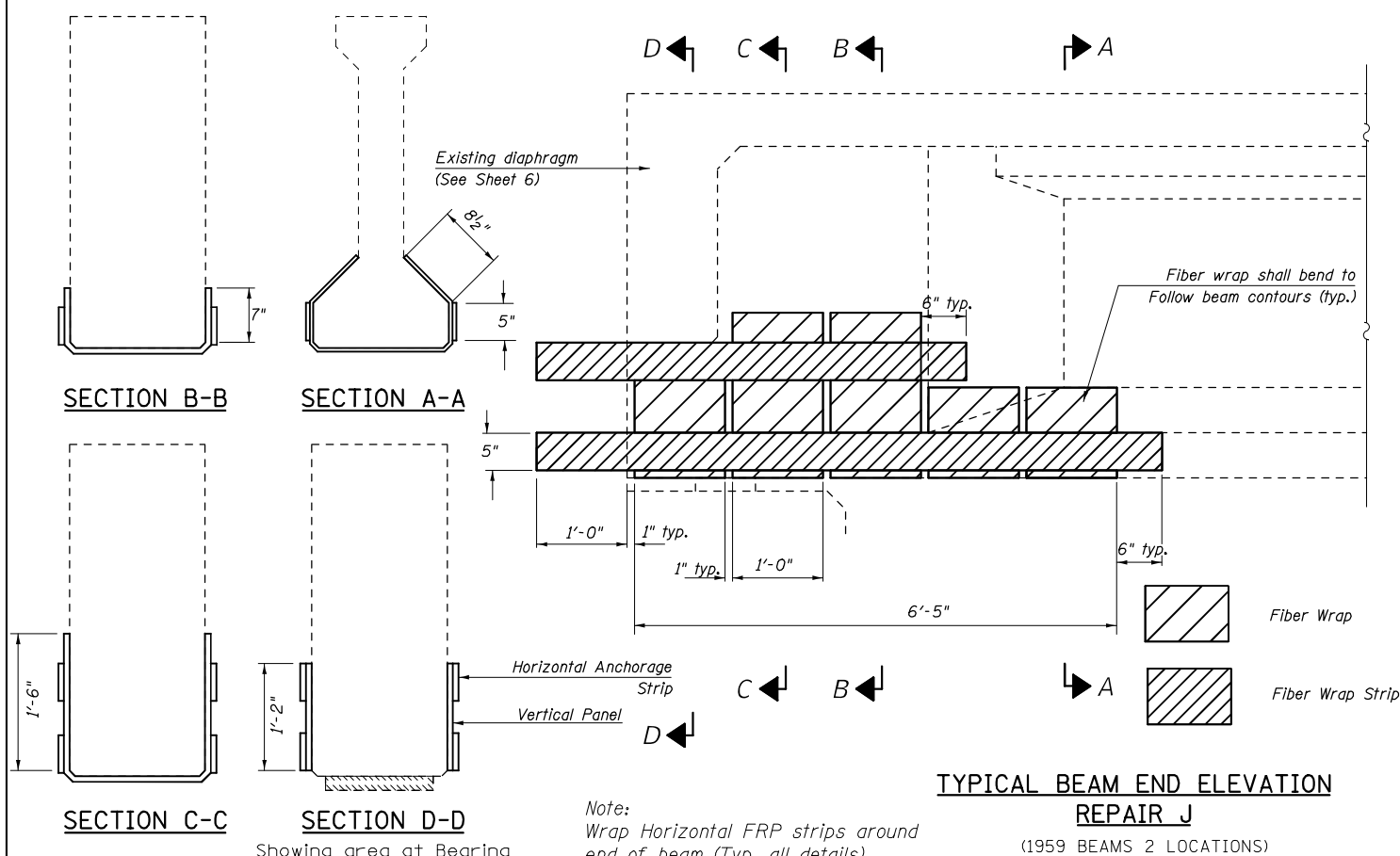
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM END ELEVATION
REPAIR I**
(1959 BEAMS 1 LOCATIONS)

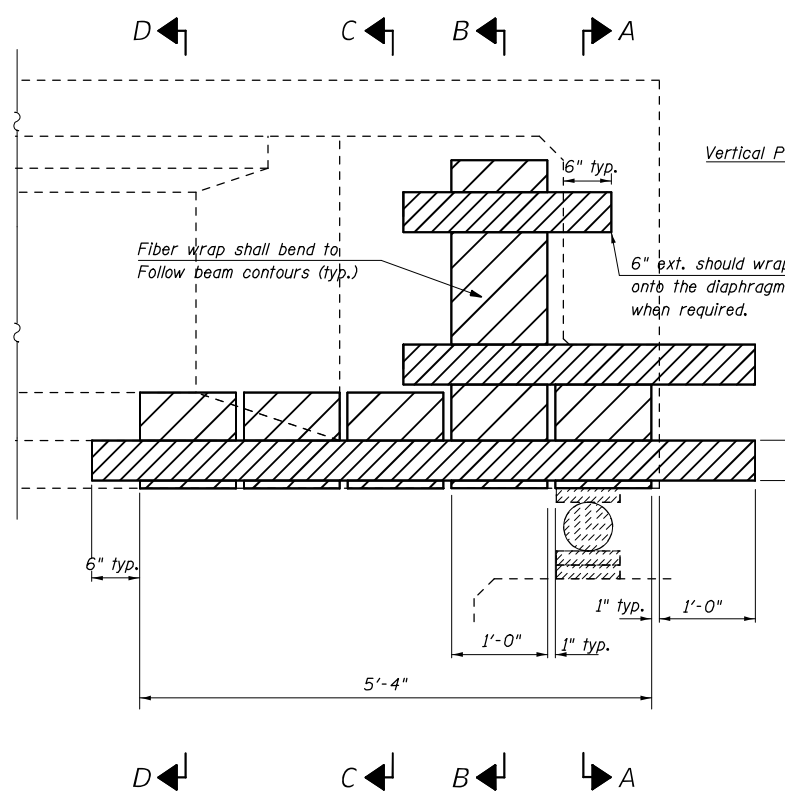


Fiber Wrap Strips
Fiber Wrap

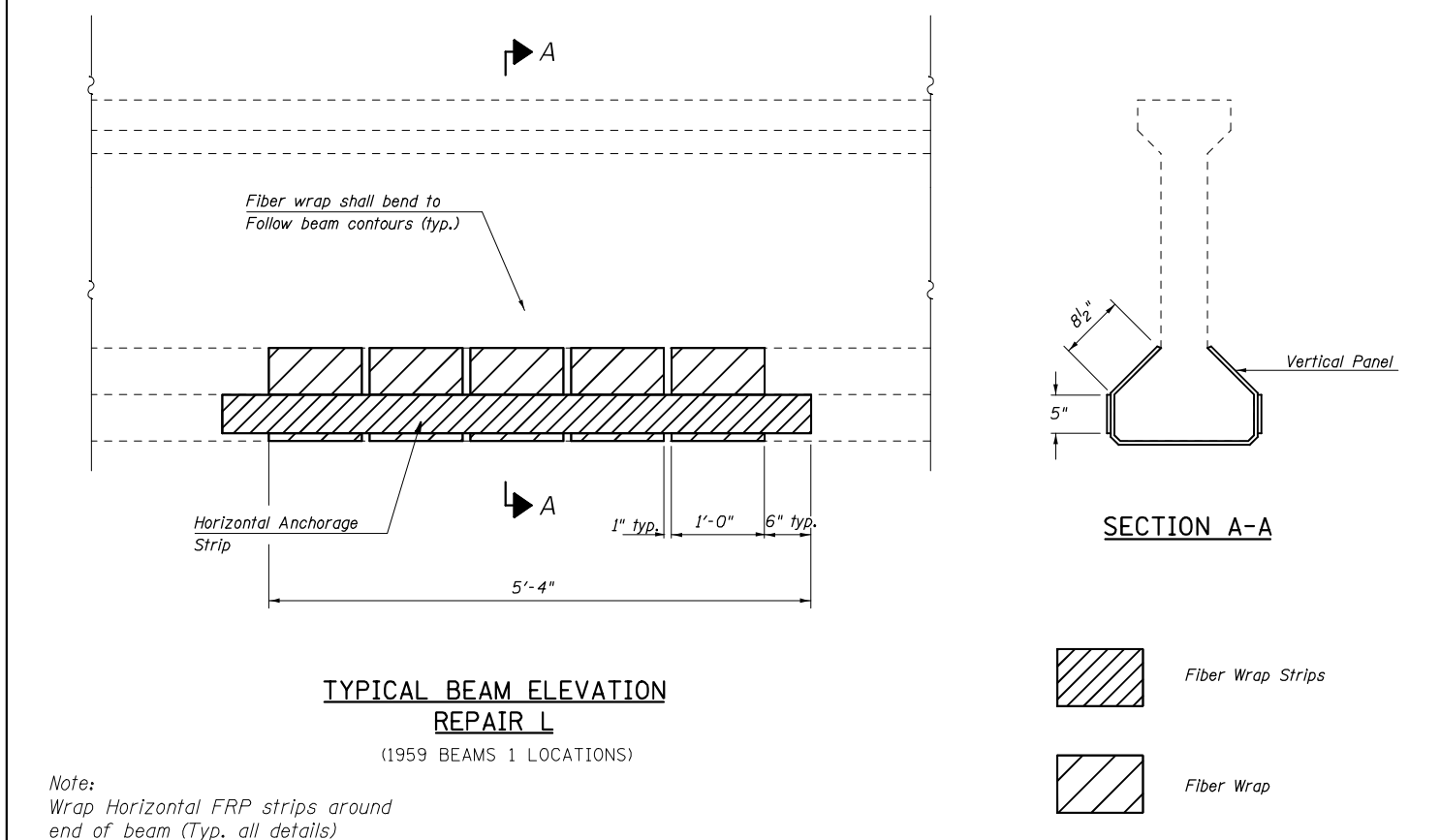
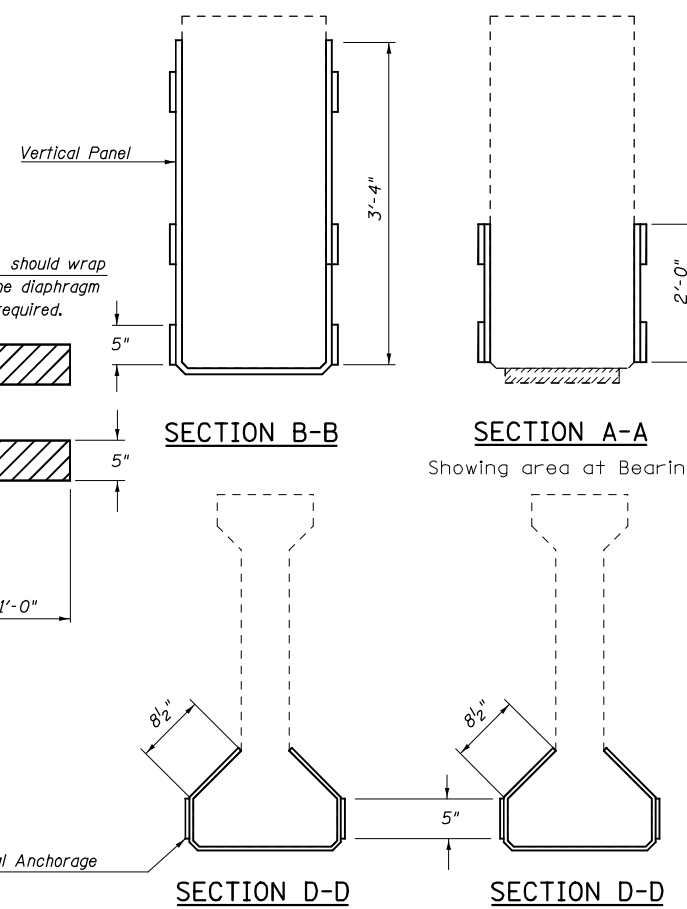


**TYPICAL BEAM END ELEVATION
REPAIR J**
(1959 BEAMS 2 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM END ELEVATION
REPAIR K**
(1959 BEAMS 1 LOCATIONS)



**TYPICAL BEAM ELEVATION
REPAIR L**
(1959 BEAMS 1 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)

Fiber Wrap Strips
Fiber Wrap

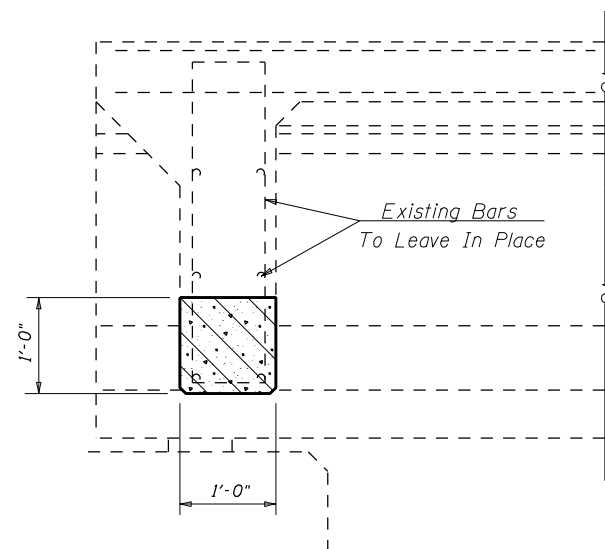
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		DRAWN - JMS	REVISED - -
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	PLOT DATE = *DATE*	DATE - 030518	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

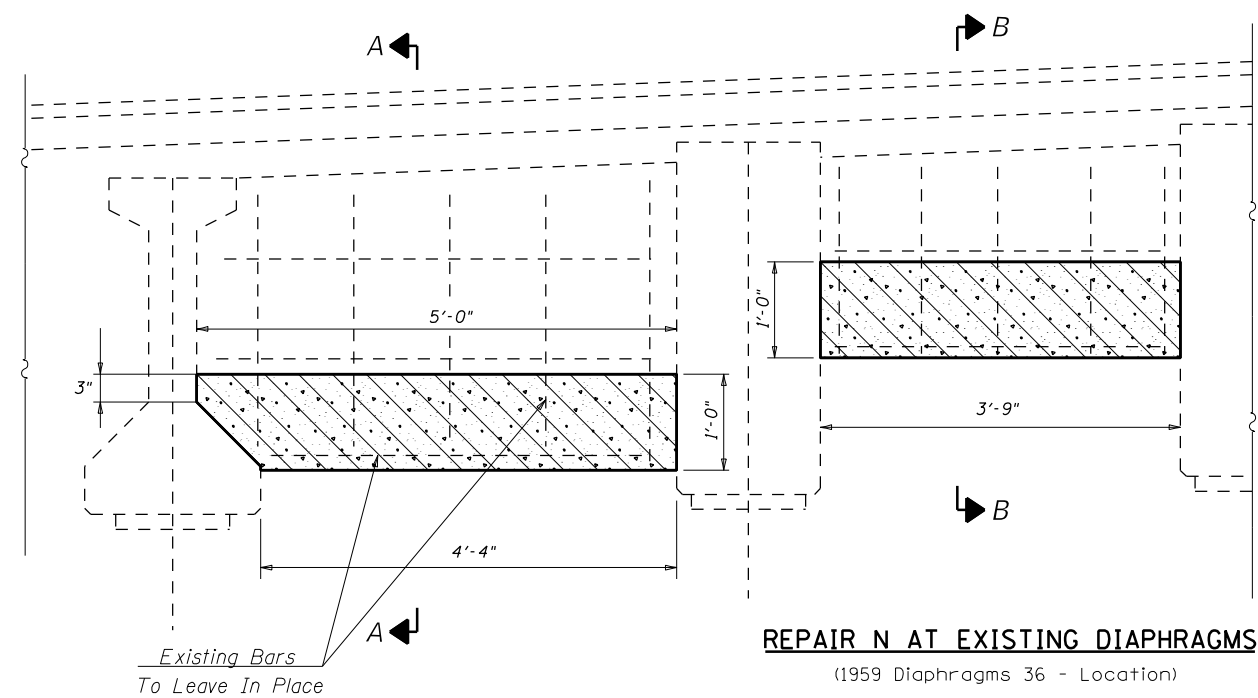
**FRP REPAIR DETAILS
S.N.(s) 010-027 & 0028**

SCALE: NONE SHEET NO. 5 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	24
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				

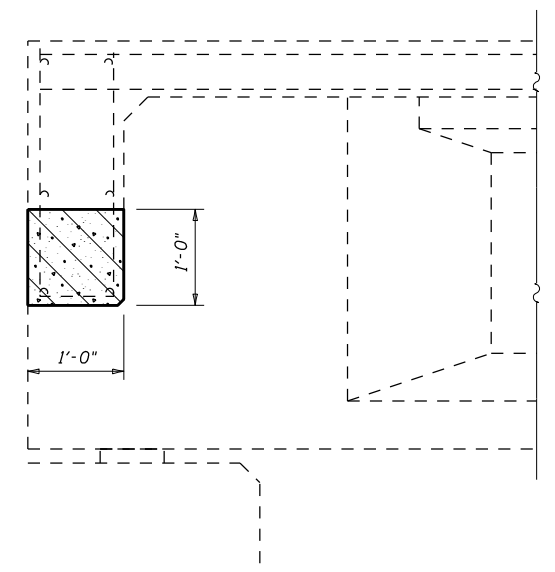


SECTION A-A



REPAIR M AT EXISTING DIAPHRAGMS
(1993 Diaphragms 1 - Location)

REPAIR N AT EXISTING DIAPHRAGMS
(1959 Diaphragms 36 - Location)



SECTION B-B

- Concrete Removal
- Concrete Superstructures

NOTE:

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Diaphragms to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

**TYPICAL CROSS-SECTION ELEVATION
AT ABUTMENTS AND PIERS**

FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM REPAIR DETAILS S.N.(s) 010-0027 & 0028	F.A.I. RTE. 74	SECTION (10-7,10-7B-1)BR	COUNTY CHAMPAIGN	TOTAL SHEETS 79	SHEET NO. 25		
CONTRACT NO. 70E48	SCALE: NONE	SHEET NO. 6 OF 9 SHEETS	STA. _____ TO STA. _____			ILLINOIS FED. AID PROJECT						
PLOT SCALE = 40.0000' / in.	CHECKED - _____	DATE - 030518	REVISED - -									
PLOT DATE = 9/27/2021												

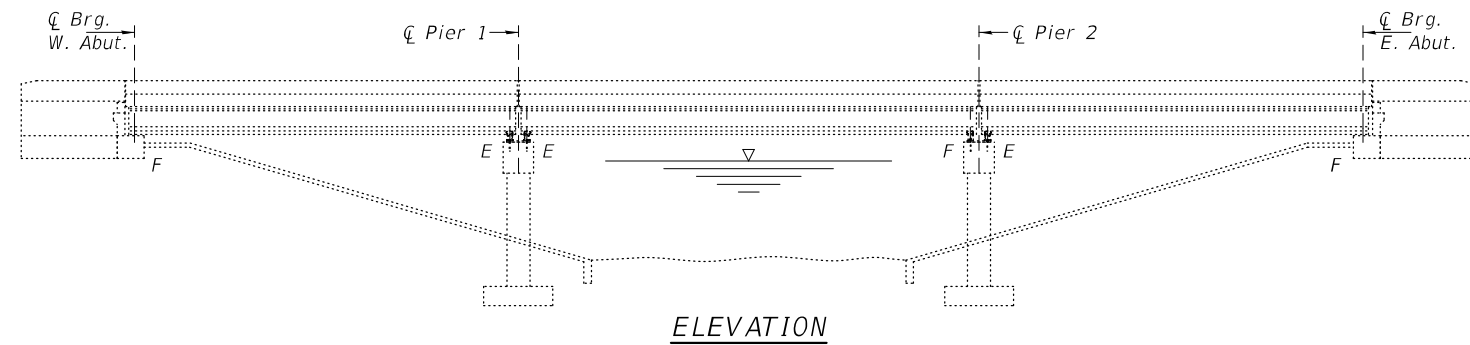
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

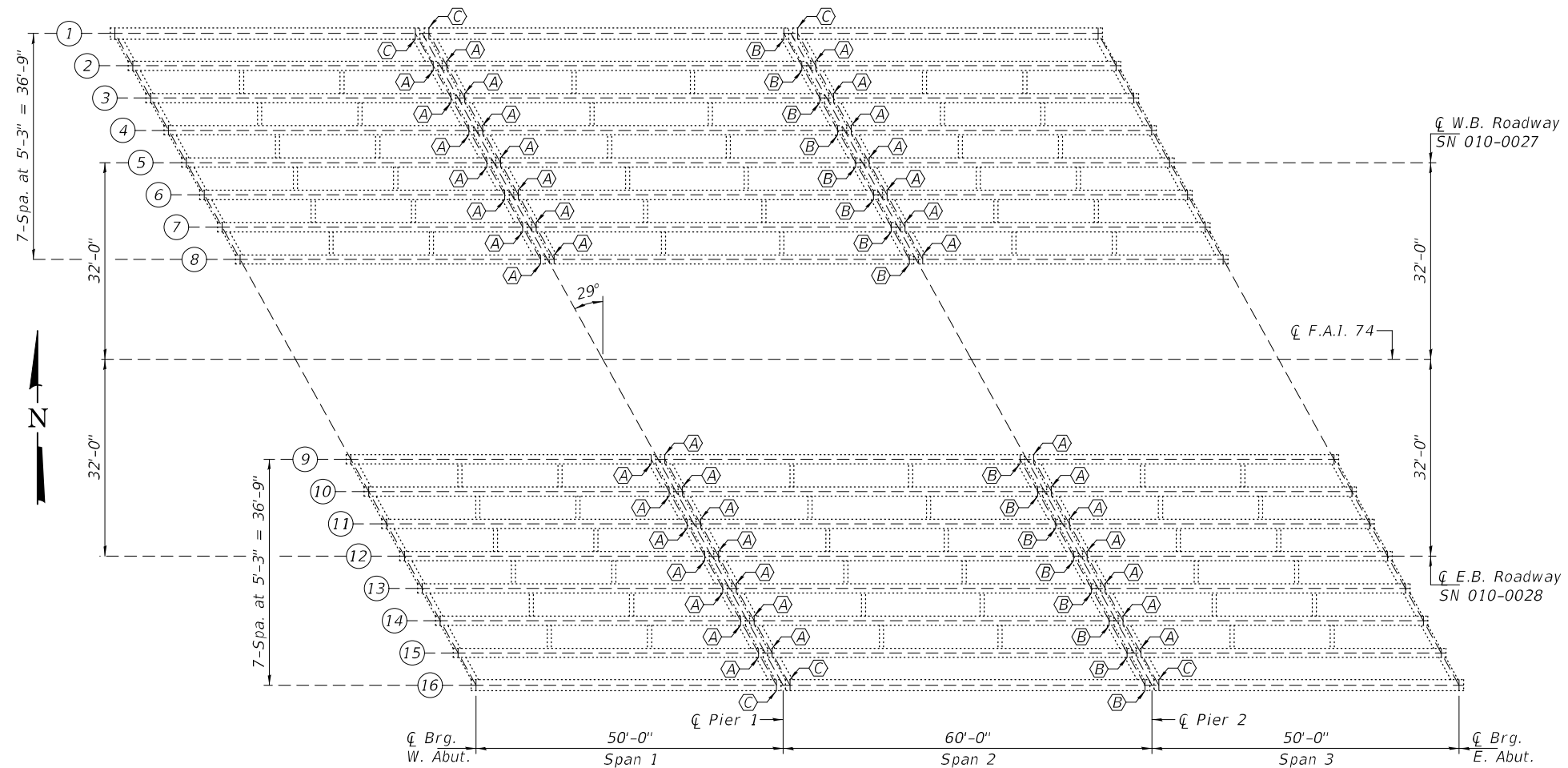
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All new structural steel and bearing assembly shall be hot-dipped galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".



ELEVATION

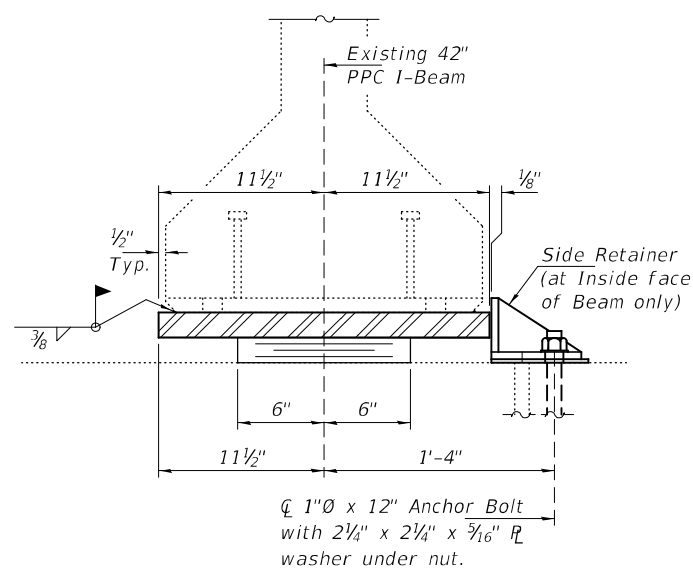
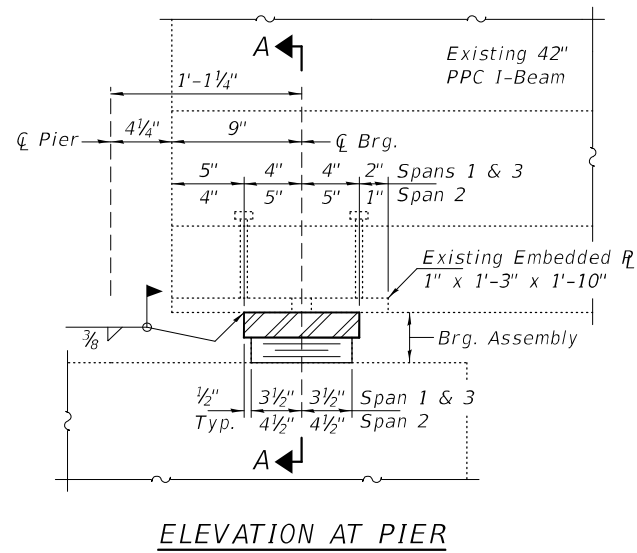


FRAMING PLAN

- (A) - Remove Existing Roller Bearings and install New Elastomeric Expansion Bearings (Type I).
- (B) - Remove & Replace Existing Fixed Bearings
- (C) - Remove & Replace Existing Elastomeric Expansion Bearings (Type I).

Expires: November 30, 2022

DESIGNED - Jeffrey S. Burke	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - DECEMBER 9, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN AND ELEVATION F.A.I. 74 OVER SALINE DRAINAGE DITCH SN 010-0027 (W.B.) & -0028 (E.B.)	F.A.I. RTE. 74	SECTION (10-7,10-7B-1)BR	COUNTY CHAMPAIGN	TOTAL SHEETS 79	SHEET NO. 26	
CHECKED - Adrian T. Halloway	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 70E48					
DRAWN - STEFFEN		REVISED -			SHEET NO. 7 OF 9 SHEETS					
CHECKED - JSB ATH					ILLINOIS FED. AID PROJECT					



BEAM REACTIONS

R _P	(K)	37.0
R _L	(K)	29.0
Imp.	(K)	8.0
R (Total)	(K)	73.8

Notes:

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 45 Tons.

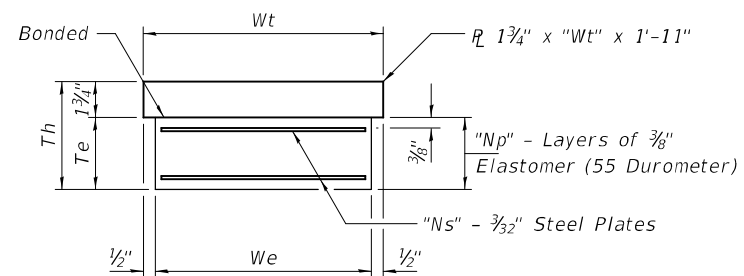
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

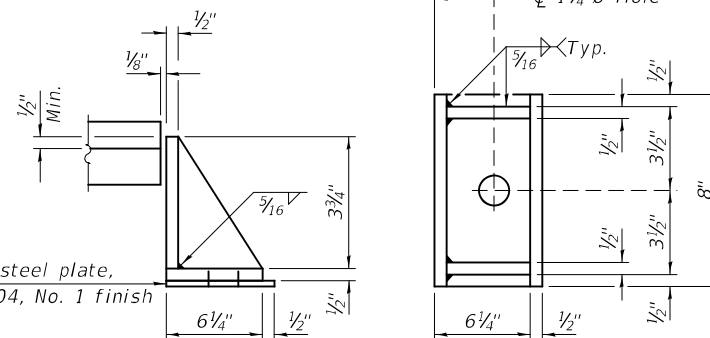
TYPE I ELASTOMERIC EXP. BRG.

(Typ. Pier 1 & East Brgs. Pier 2)
(Beams 1 & 16)



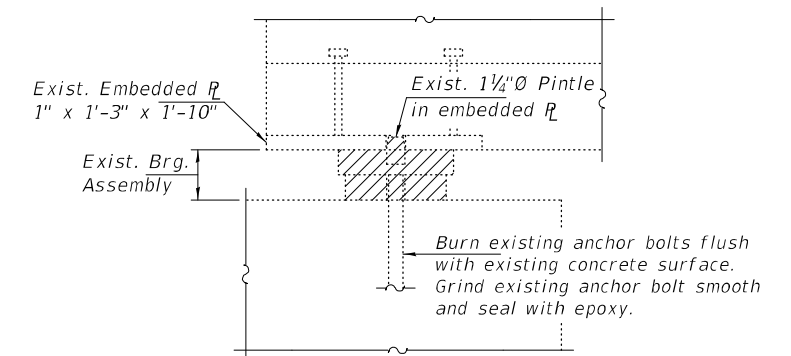
Span	We	Wt	Te	Th	Np	Ns
1 & 3	7"	8"	1 3/4"	3 1/2"	4	3
2	9"	10"	2 1/4"	4"	5	4

Note:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

(6-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Anchor Bolts, 1"Ø	Each	12

DESIGNED - JSB
CHECKED - ATH
DRAWN - STEFFEN
CHECKED - JSB ATH

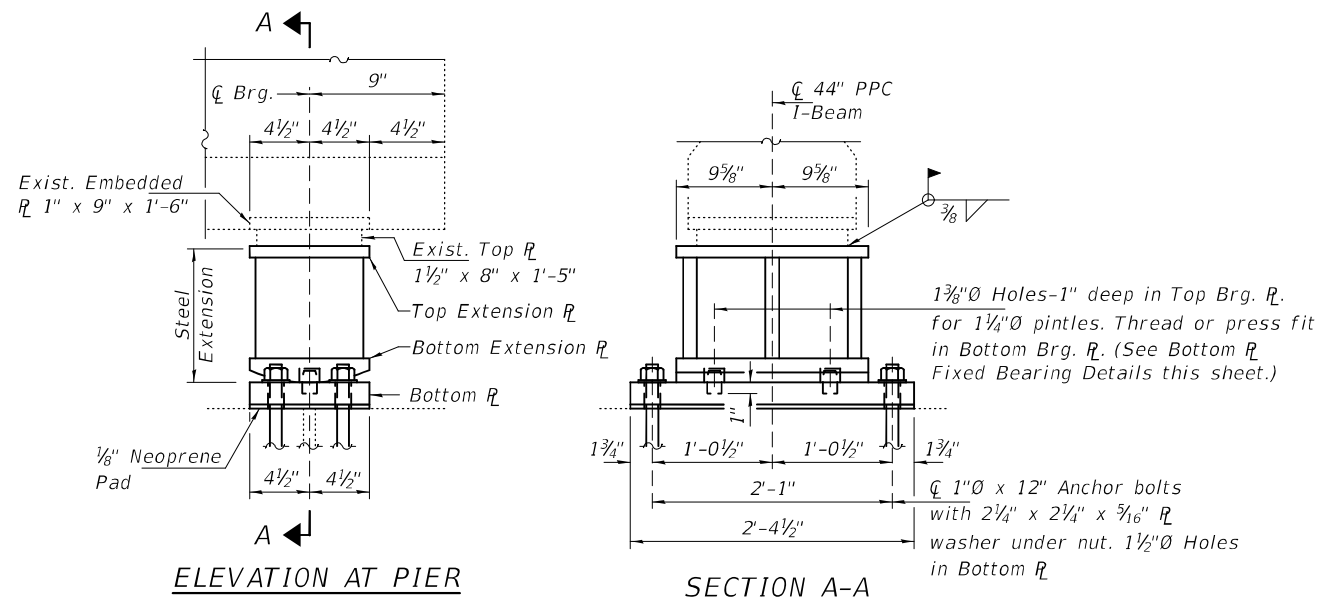
EXAMINED
PASSED

DATE - DECEMBER 9, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC EXPANSION BEARING DETAILS
BEAMS 1 & 16 AT PIER 1 & PIER 2 (EAST)
SN 010-0027 (W.B.) & -0028 (E.B.)

F.A.I. RTE. 74
SECTION (10-7,10-7B-1)BR
COUNTY CHAMPAIGN
TOTAL SHEETS 79
SHEET NO. 27A
CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT



ELEVATION AT PIER

SECTION A-A

FIXED BEARINGS

(Typ. Pier 2 at West Brgs.)
(Beams 2 - 15)

BEAM REACTIONS

R _l	(K)	37.0
R _r	(K)	29.0
Imp.	(K)	8.0
R (Total)	(K)	73.8

Notes:

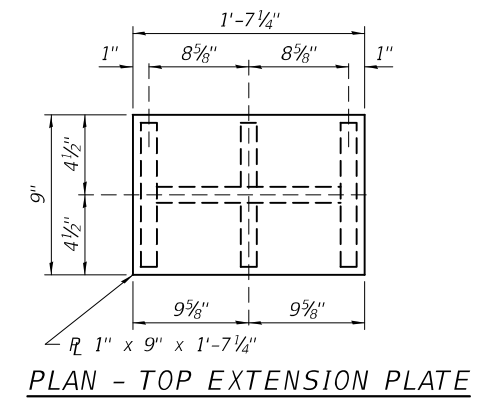
New fixed bearings, steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

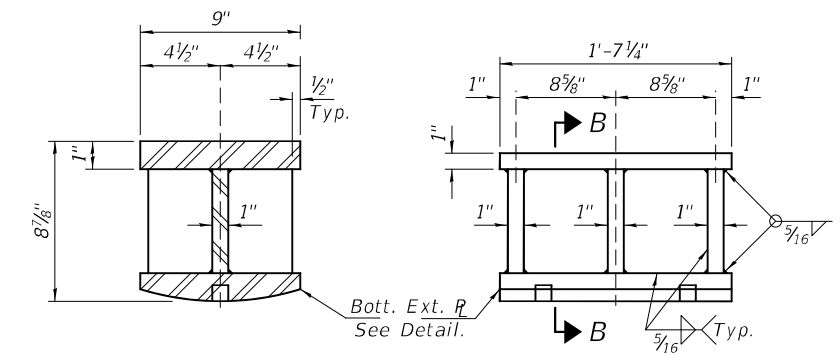
Min. jack capacity = 45 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

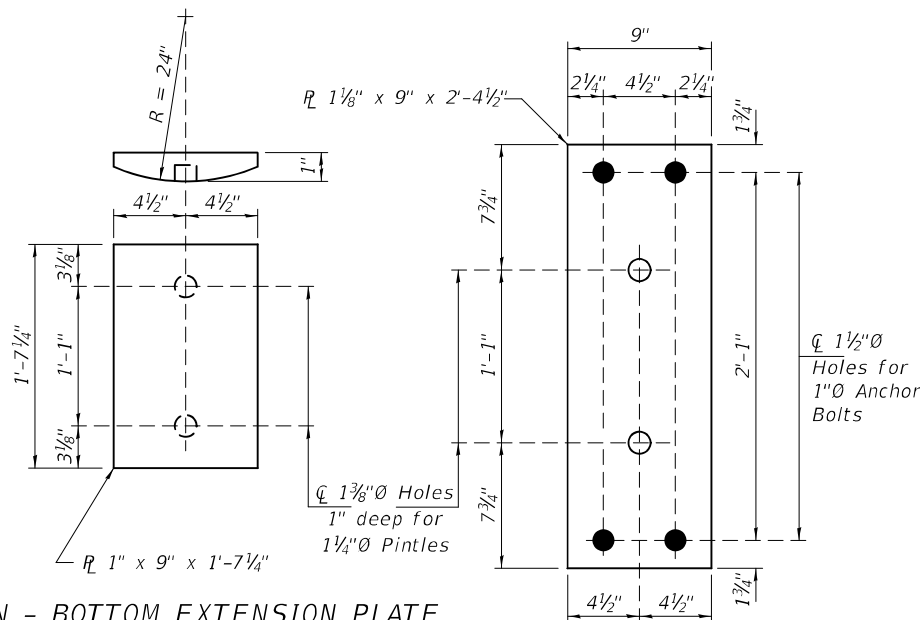


PLAN - TOP EXTENSION PLATE



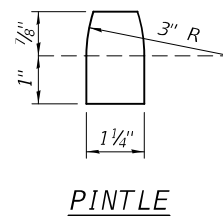
SECTION B-B

STEEL EXTENSION DETAIL

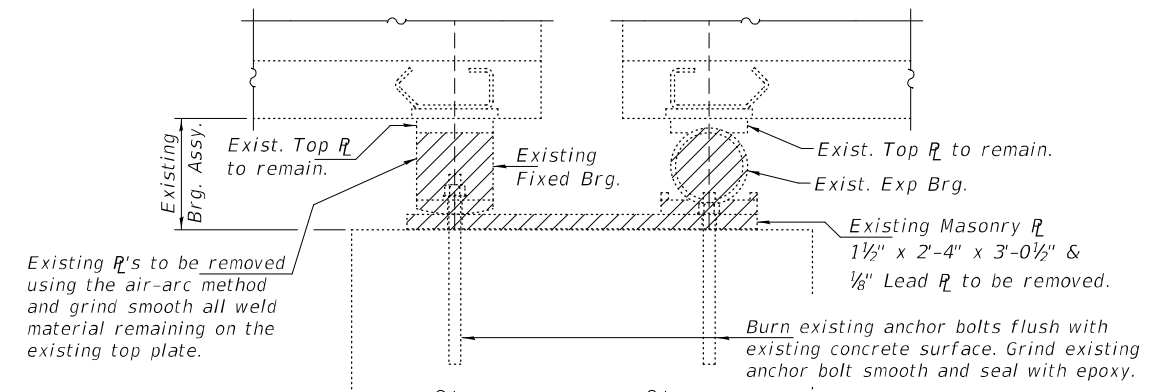


PLAN - BOTTOM EXTENSION PLATE
FIXED BEARINGS

PLAN - BOTTOM PLATE
FIXED BEARINGS



PINTLE



EXISTING BEARING REMOVAL
DETAIL AT PIER 2

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	11
Furnishing and Erecting Structural Steel	Pound	3840
Anchor Bolts, 1"Ø	Each	56
* Removal of Existing Bearings	Each	3

* Cost of jacking at these locations will be paid with Temporary Shoring and Cribbing. See sheets 31 and 36 of 79 for locations.

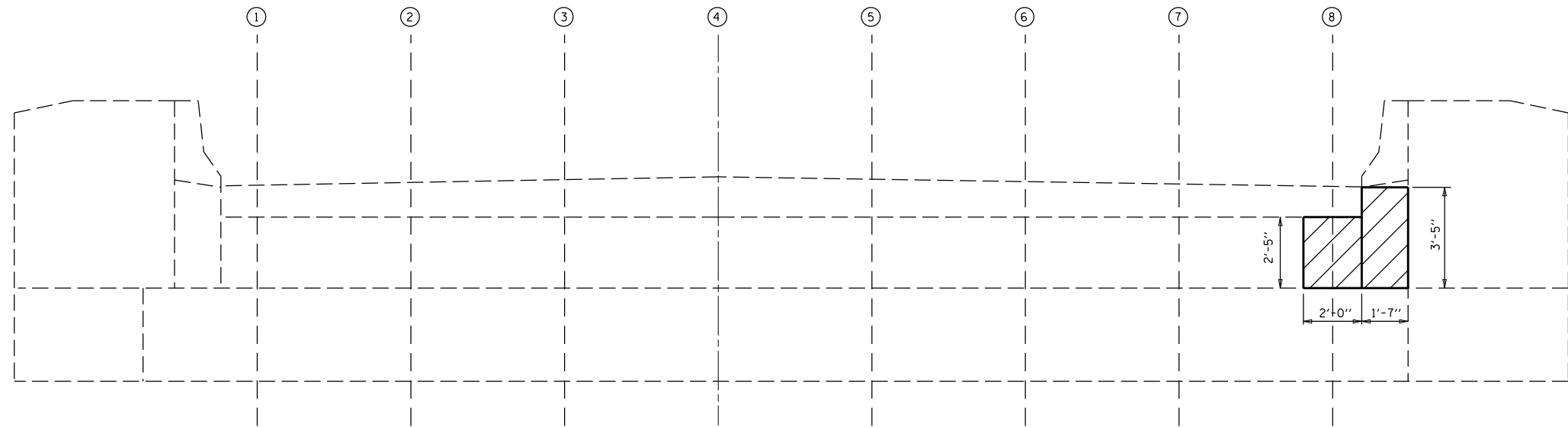
DESIGNED - JSB	EXAMINED - Timothy A. [Signature]	DATE - DECEMBER 9, 2021
CHECKED - ATH	PASSED - [Signature]	REVISIONS -
DRAWN - STEFFEN		
CHECKED - JSB ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

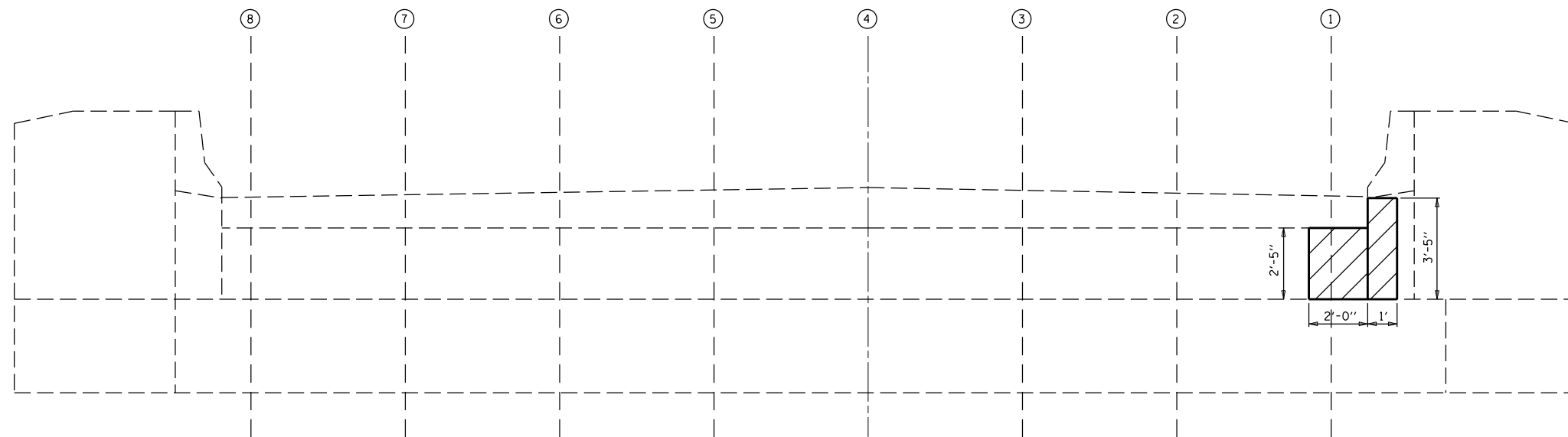
FIXED BEARING DETAILS - BMS. 2 THRU 15 - PIER 2 (WEST)
SN 010-0027 (W.B.) & -0028 (E.B.)

SHEET NO. 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	28
			CONTRACT NO. 70E48	
			ILLINOIS FED. AID PROJECT	



ELEVATION VIEW
WEST ABUTMENT (LOOKING WEST)



ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SO FT	19.0

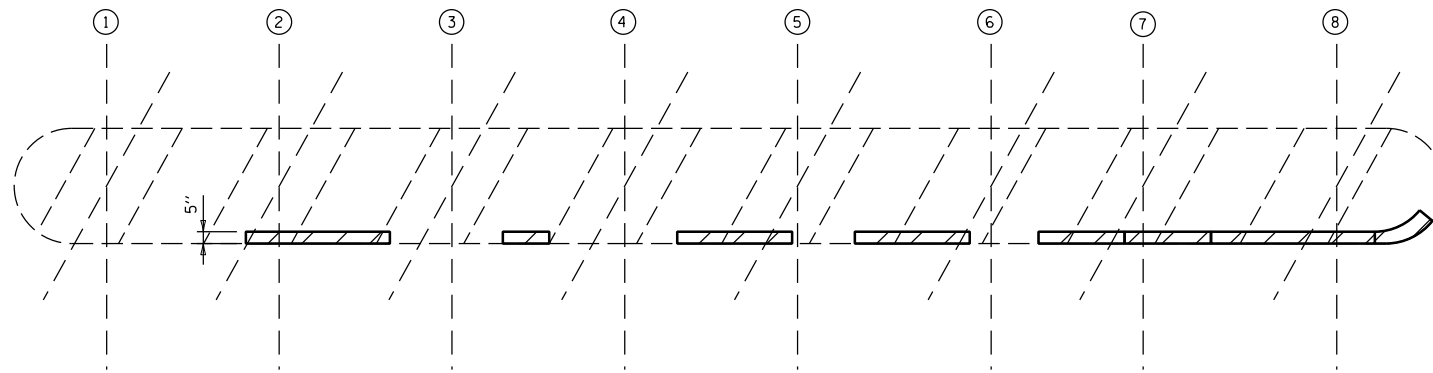
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	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS
S.N. 010-0027

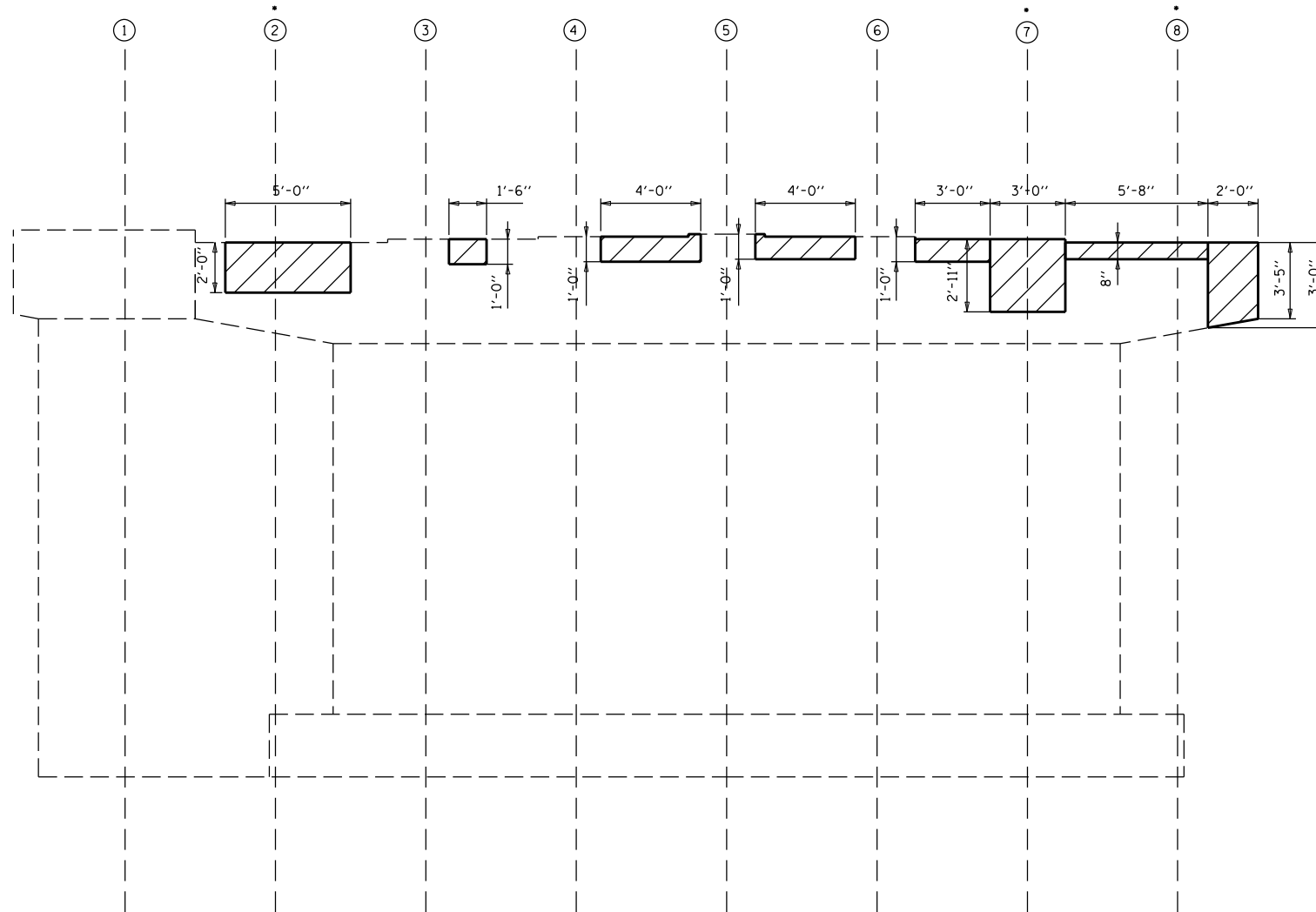
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	29
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

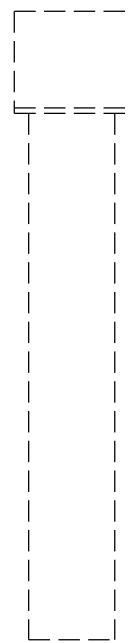


PLAN VIEW

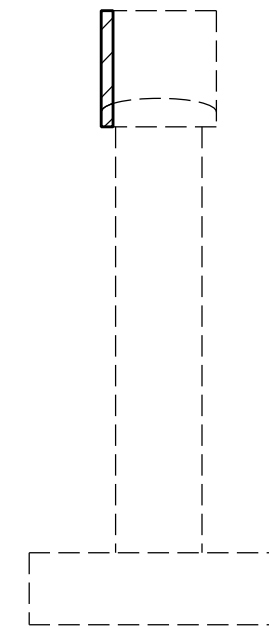
• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 1 WEST FACE (LOOKING EAST)



END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING SOUTH)



END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	41.0
TEMPORARY SHORING AND CRIBBING	EACH	3.0

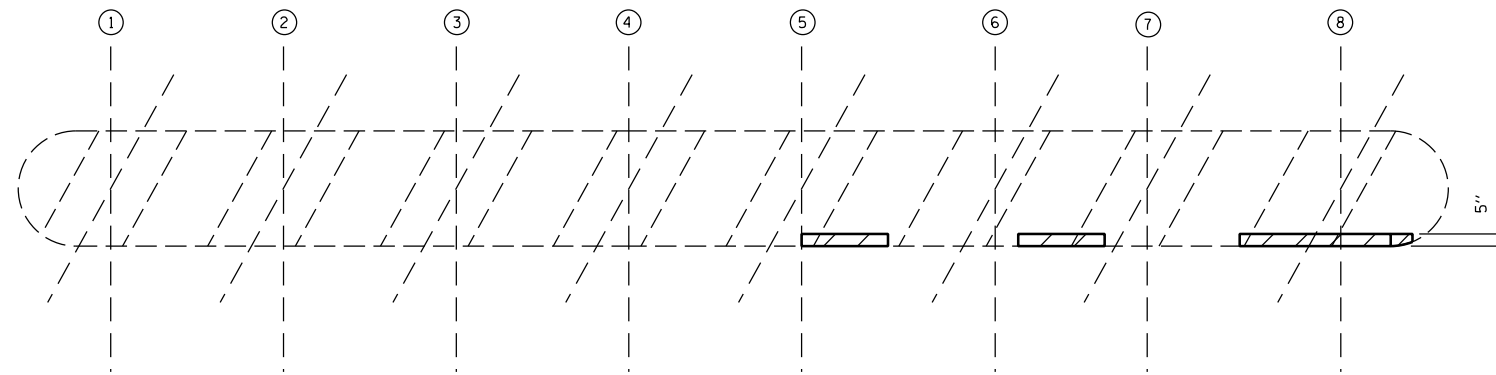
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	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0027

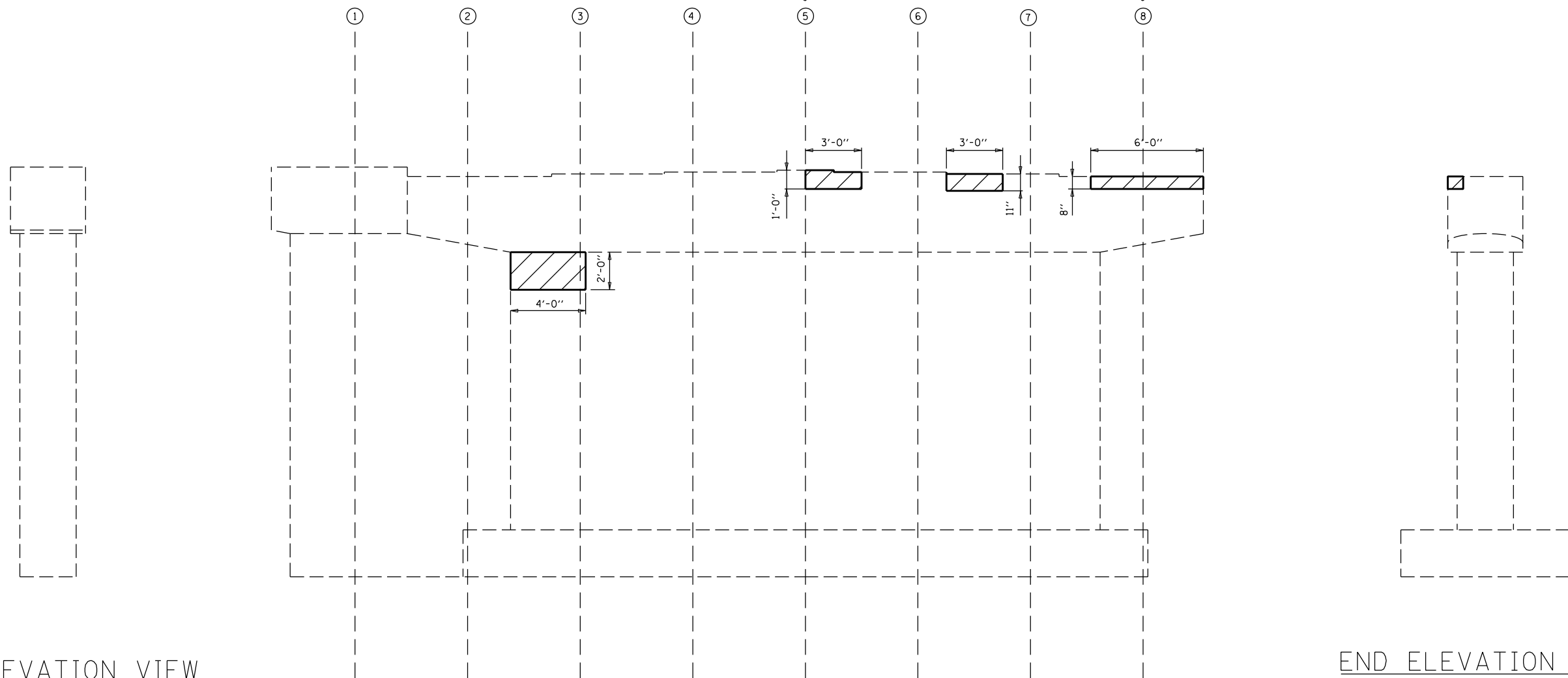
SCALE: NONE SHEET NO. 2 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	30
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING SOUTH)

ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)

END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	18.0
TEMPORARY SHORING AND CRIBBING	EACH	2.0

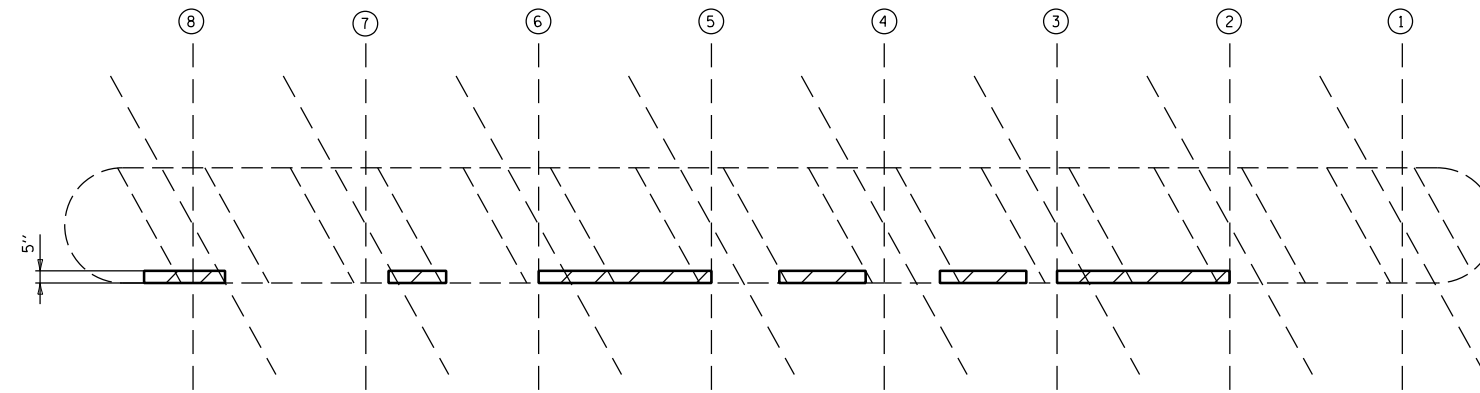
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PLOT DATE = 10/4/2021	DATE - 032521	REVISOR -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0027

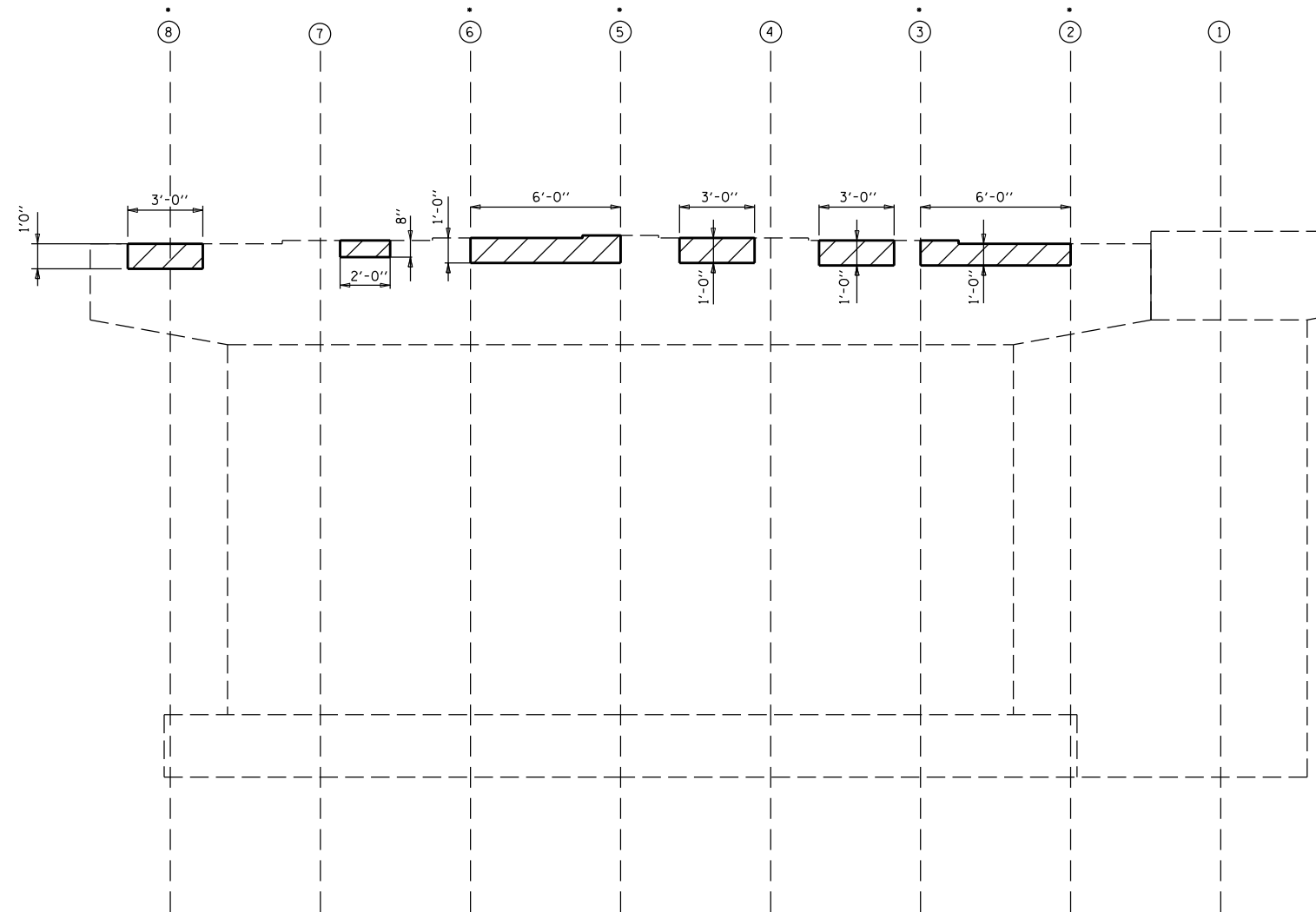
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	31
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				

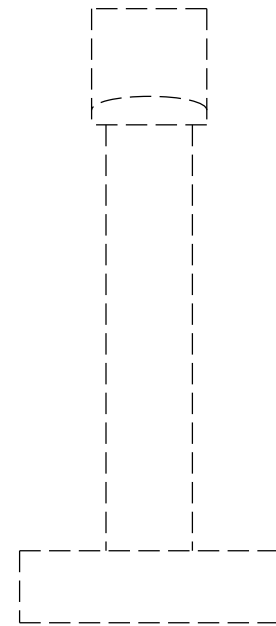


PLAN VIEW

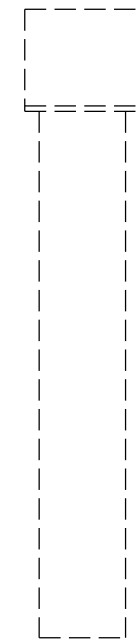
• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 2 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 2 EAST FACE (LOOKING NORTH)



END ELEVATION VIEW
PIER 2 EAST FACE (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	22.0
TEMPORARY SHORING AND CRIBBING	EACH	5.0

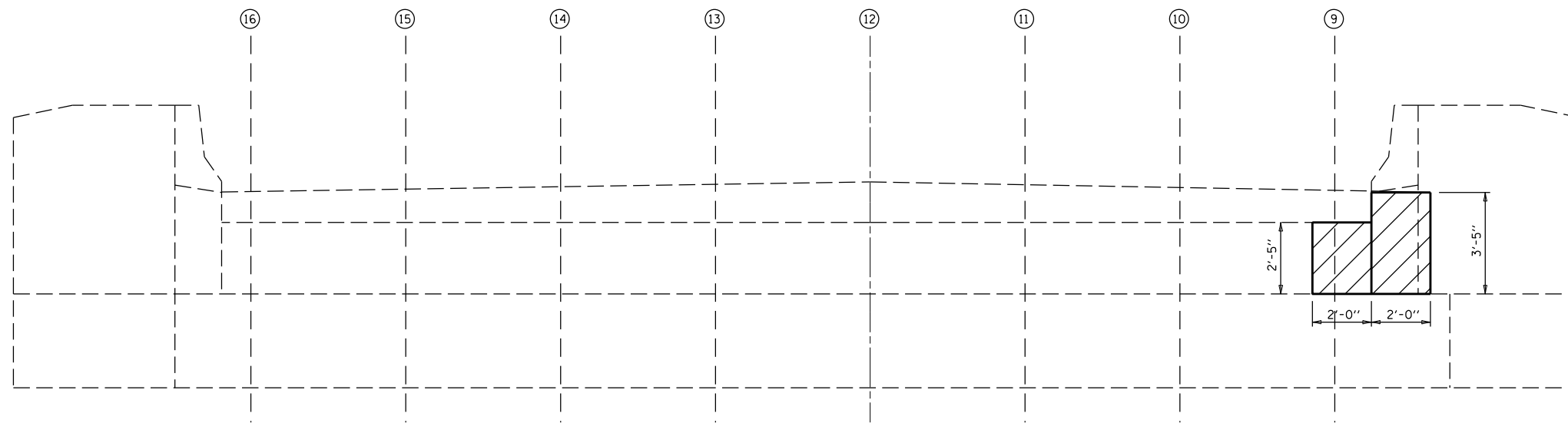
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	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

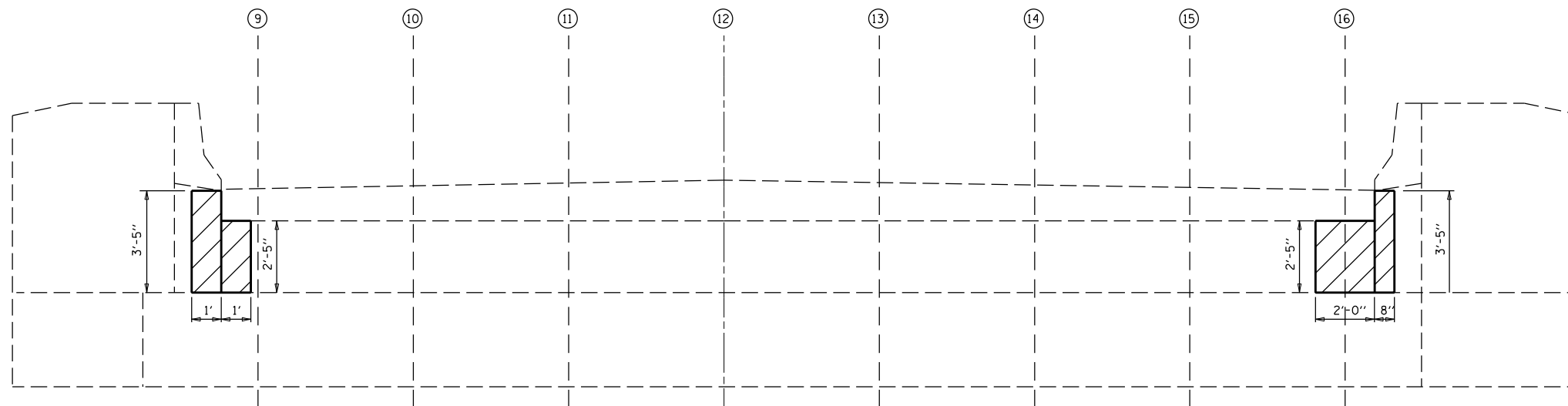
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0027

SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	32
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



ELEVATION VIEW
WEST ABUTMENT (LOOKING WEST)



ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SO FT	25.0

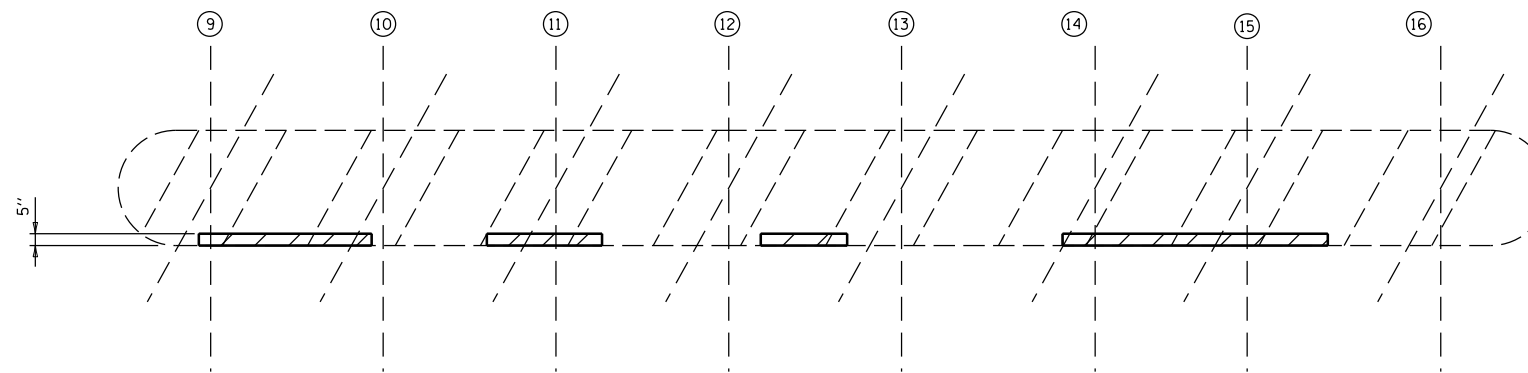
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	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS
S.N. 010-0028

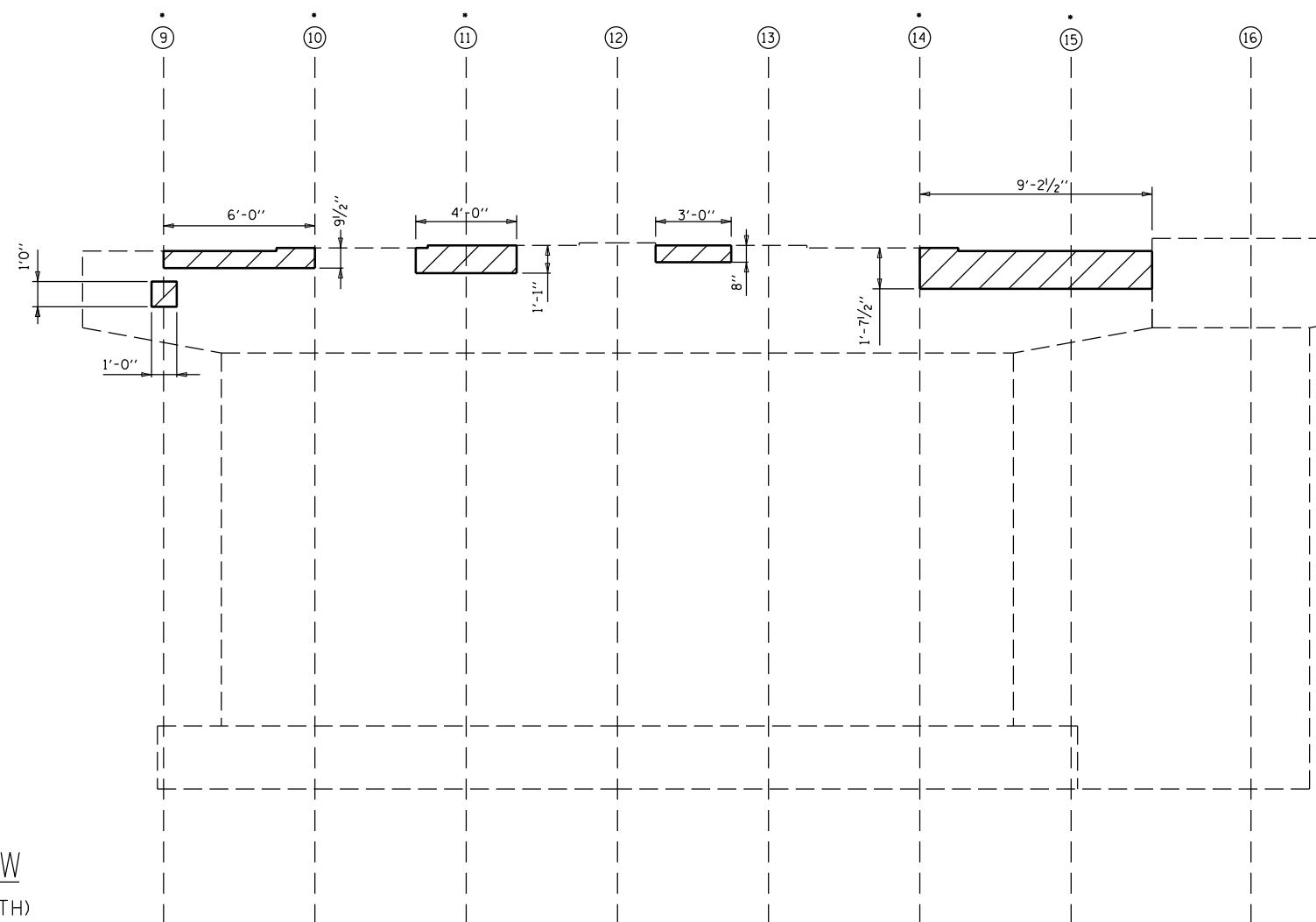
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70E48	



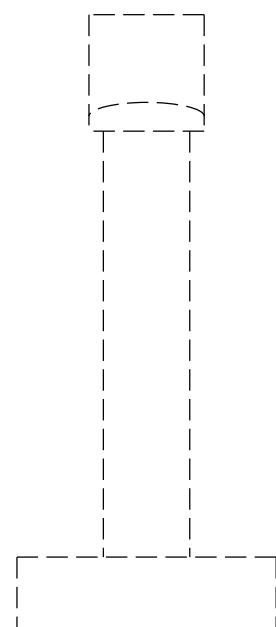
PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



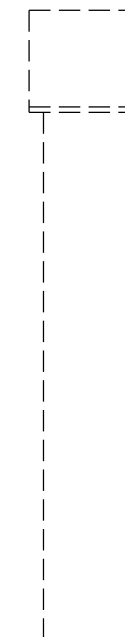
ELEVATION VIEW

PIER 1 WEST FACE (LOOKING EAST)



END ELEVATION VIEW

PIER 1 WEST FACE (LOOKING SOUTH)



END ELEVATION VIEW

PIER 1 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	26.0
TEMPORARY SHORING AND CRIBBING	EACH	5.0

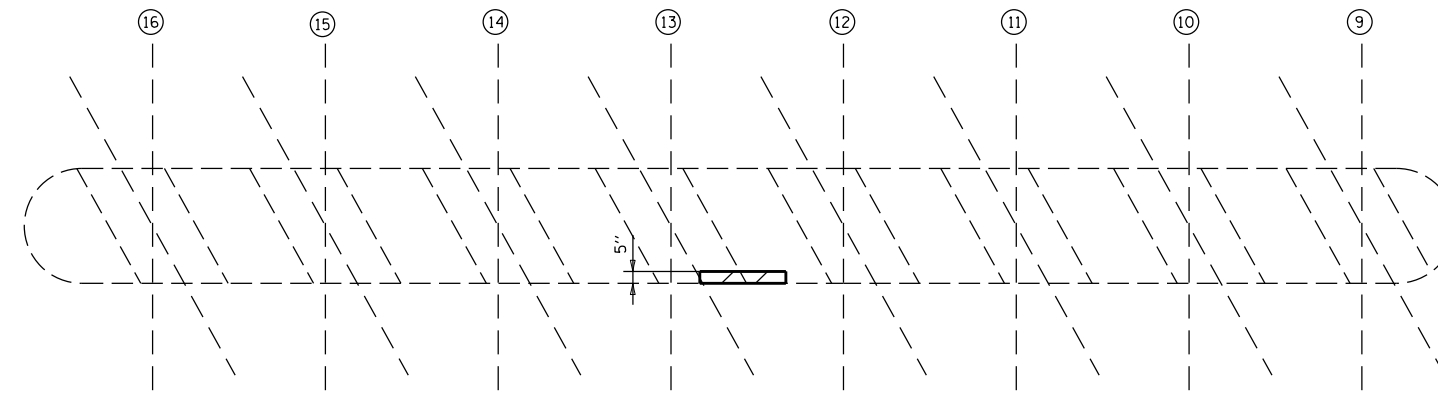
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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 10/4/2021	DATE - 032521	REVISOR -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0028

SCALE: NONE SHEET NO. 6 OF 9 SHEETS STA. _____ TO STA. _____

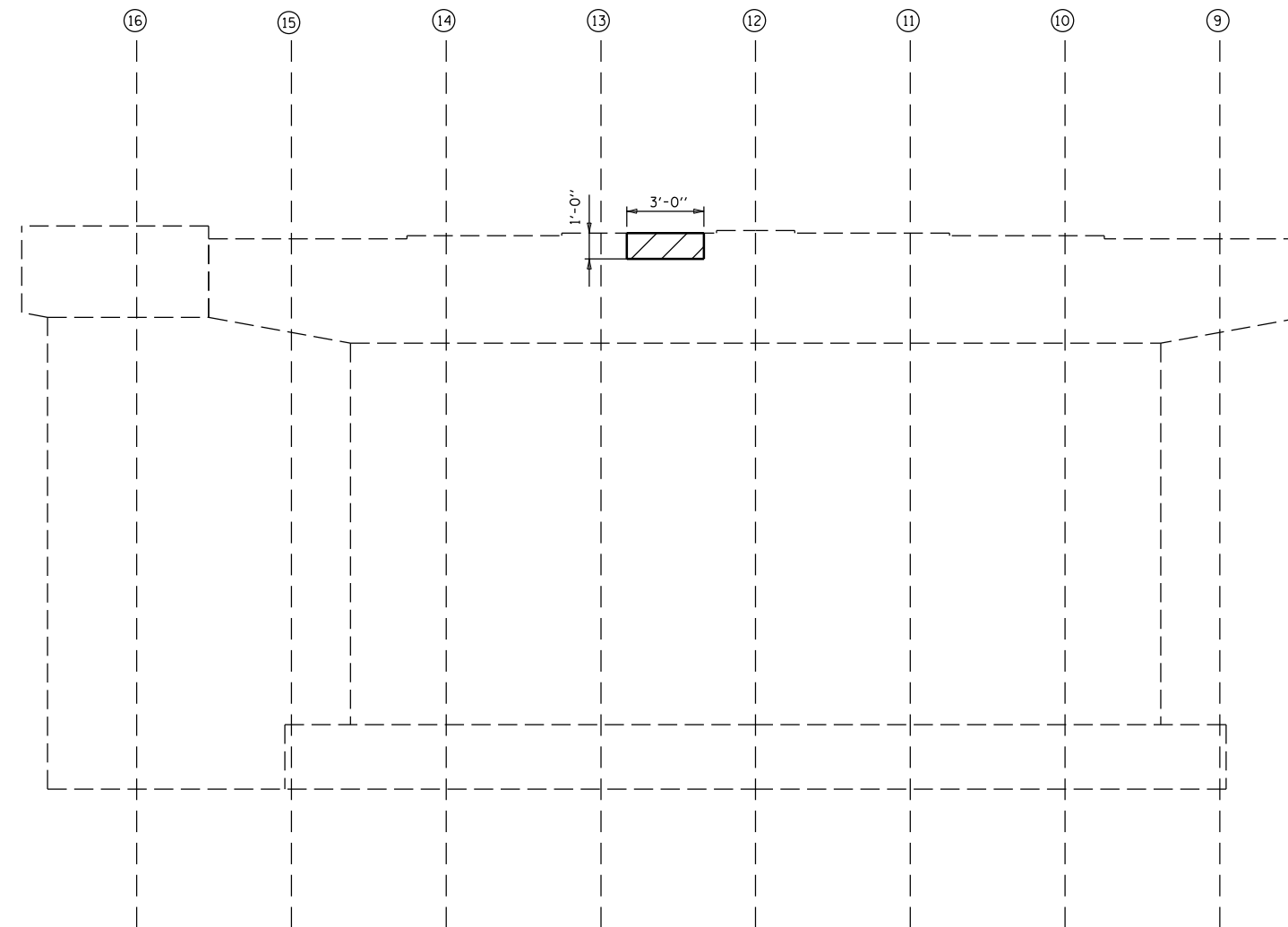
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	34
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



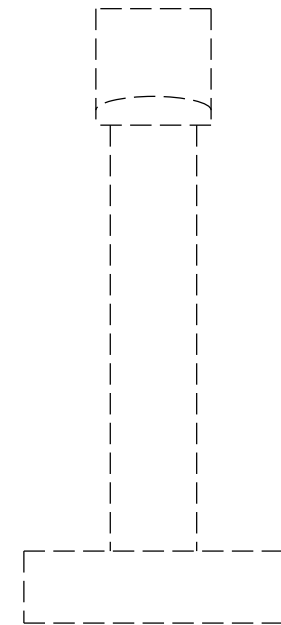
PLAN VIEW



END ELEVATION VIEW
PIER 1 (LOOKING NORTH)



ELEVATION VIEW
PIER 1 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 1 (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	3.0

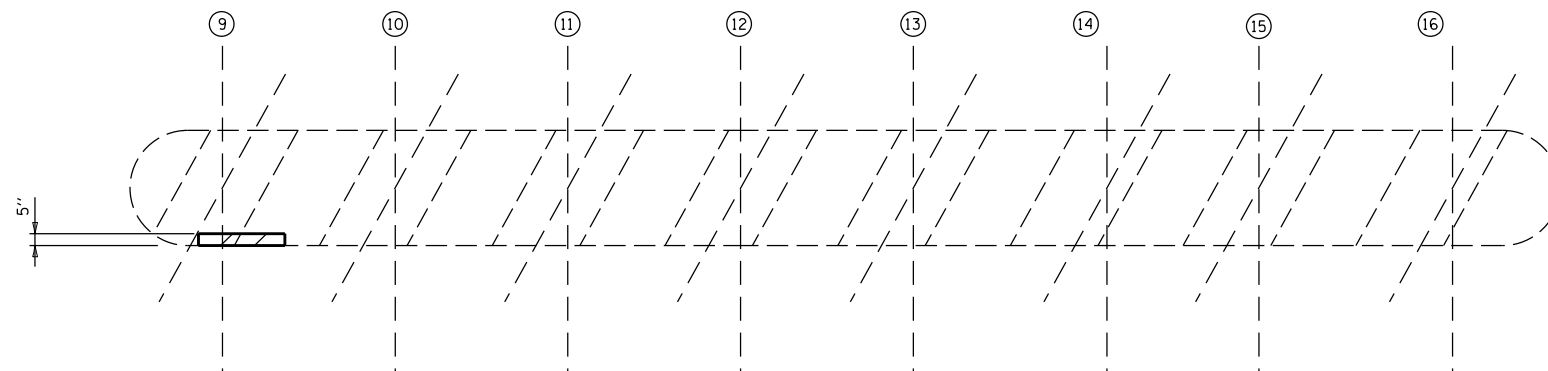
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	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0028

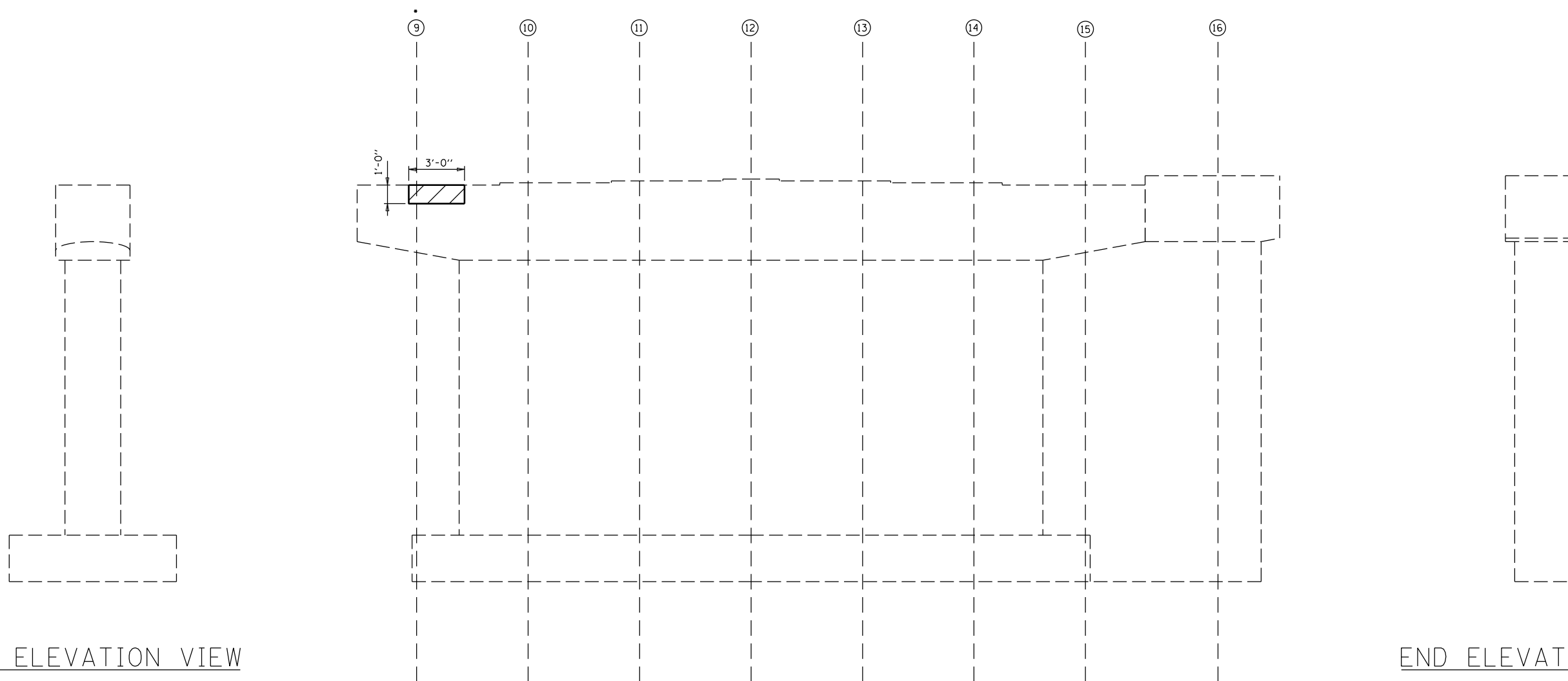
SCALE: NONE SHEET NO. 7 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	35
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				



PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



END ELEVATION VIEW
PIER 2 (LOOKING SOUTH)

ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)

END ELEVATION VIEW
PIER 2 (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	3.0
TEMPORARY SHORING AND CRIBBING	EACH	1.0

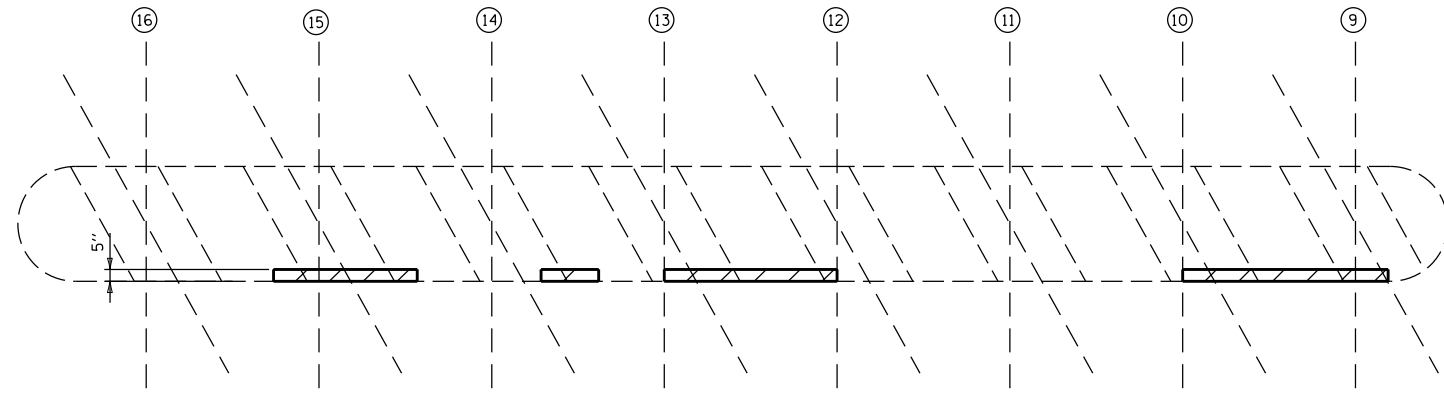
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0028

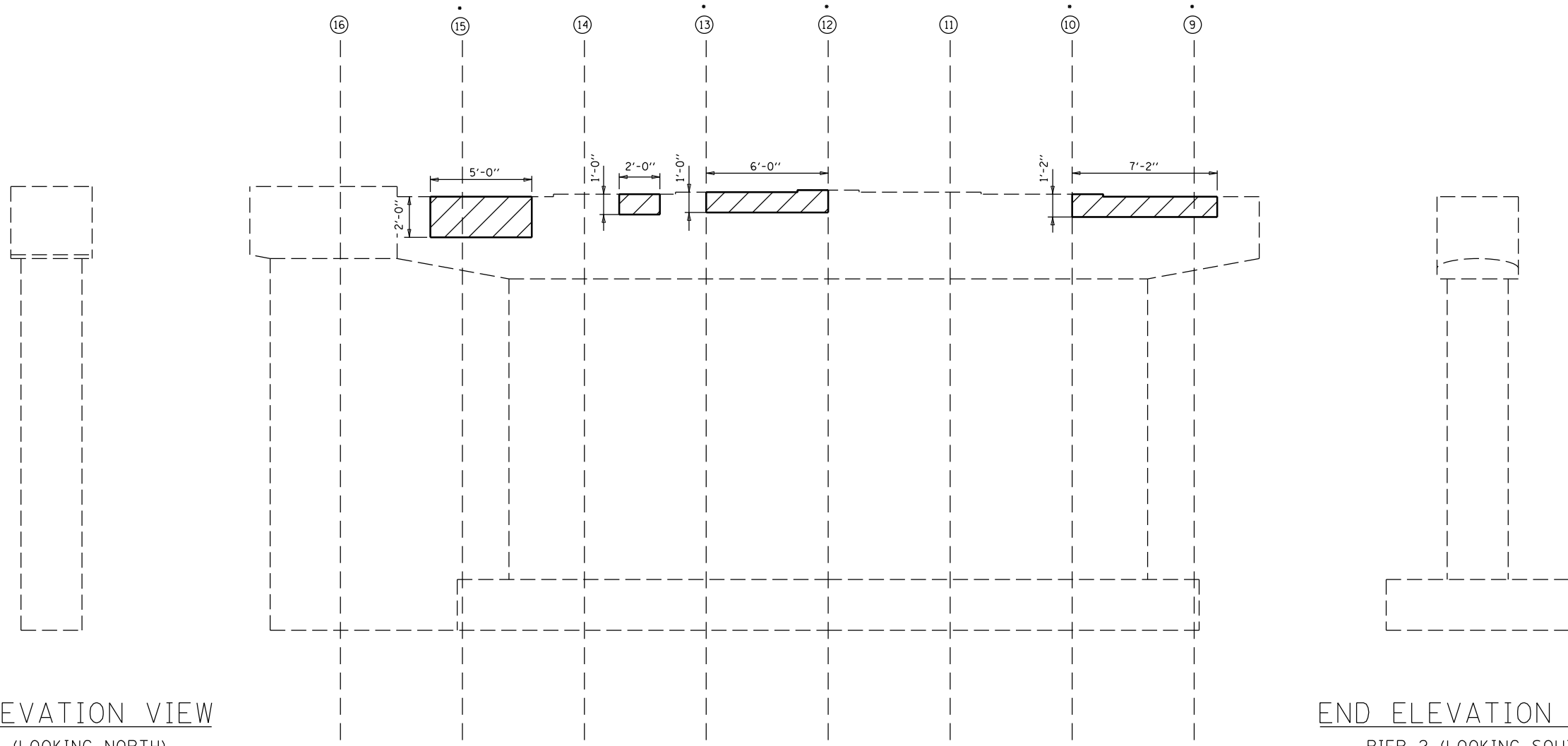
SCALE: NONE SHEET NO. 8 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	36
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



END ELEVATION VIEW
PIER 2 (LOOKING NORTH)

ELEVATION VIEW
PIER 2 EAST FACE (LOOKING WEST)

END ELEVATION VIEW
PIER 2 (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SQ FT	26.0
TEMPORARY SHORING AND CRIBBING	EACH	5.0

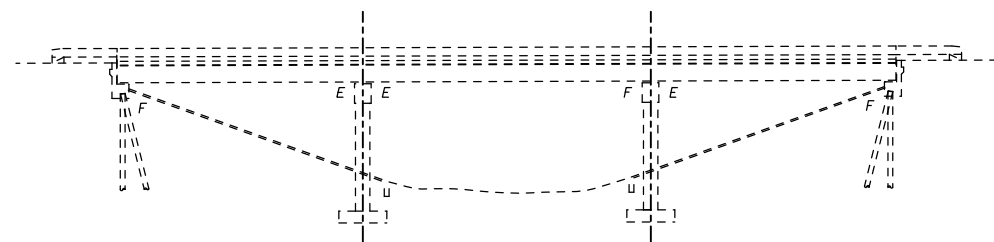
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0028**

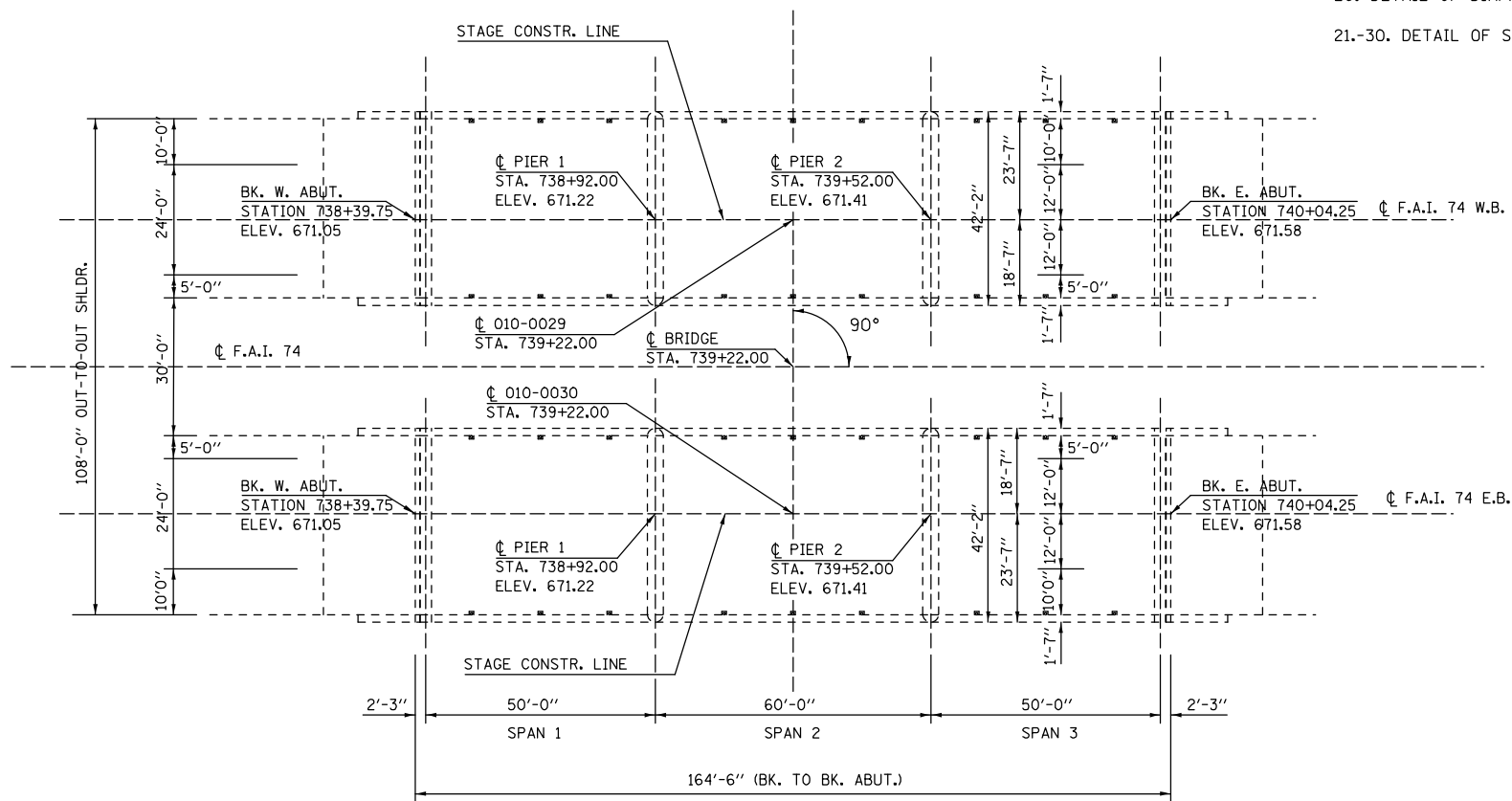
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	37
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



ELEVATION VIEW

E.B. BRIDGE SHOWN W.B. BRIDGE IDENTICAL



PLAN VIEW



Expires 11-30-2022

D. Carl Puzey

PROPOSED IMPROVEMENTS

1. REMOVE AND REPLACE BEARINGS AT ALL ABUTMENTS AND PIERS.
2. FIBER WRAP AND BEAM END REPAIRS AT VARIOUS LOCATIONS.
3. DIAPHRAM REPAIRS AT VARIOUS LOCATIONS.
4. REMOVE AND REPLACE EXPANSION JOINTS AT ABUTMENTS AND PIERS.
5. BRIDGE DECK SCARIFICATION, 3/4".
6. PLACEMENT OF PROPOSED LATEX CONCRETE WEARING SURFACE.
7. PLACE POLYMERIZED HOT-MIX ASPHALT RUN-DOWNS.
8. STRUCTURAL REPAIR OF CONCRETE.

INDEX OF SHEETS

1. GENERAL PLAN AND ELEVATION 010-0029 & 010-0030.
2. EXISTING DECK CROSS-SECTION.
- 3.-5. STAGED CONSTRUCTION DETAIL.
- 6.-13. DETAIL OF JOINT REPLACEMENTS.
14. DETAIL OF WEARING SURFACE.
- 15.-20. DETAIL OF FRP REPAIR.
20. DETAIL OF DIAPHRAGM REPAIR.
- 21.-30. DETAIL OF SRC <= 5"

S.N. 010-0029 & 0030 WERE BUILT IN 1959 AS FAI ROUTE 74, SECTION 10-7B-1 AT STATION 739+22.00 IN CHAMPAIGN COUNTY. THE STRUCTURES WERE RECONSTRUCTED IN 1993, SECTION (10-7B)BR. THE STRUCTURES ARE THREE (3) SPAN, 7 1/2" THICK REINFORCED DECK WITH PRESTRESSED CONCRETE BEAMS ON SPREAD FOOTING SUPPORTED PIERS AND CONCRETE PILE SUPPORTED ABUTMENTS.

THE STRUCTURES HAVE A BACK-TO-BACK ABUTMENT LENGTH OF 164'-6", OUT-TO-OUT WIDTH OF 42'-2", BRIDGE ROADWAY WIDTH OF 39'-0", AND AN APPROACH ROADWAY WIDTH OF 41'-0".

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED UTILIZING STAGED CONSTRUCTION.

GENERAL NOTES

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLY SHALL BE HOT-DIP GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL."

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING NEW CONCRETE, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACE IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.

AREAS OF REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE REPAIRS ON AS-BUILT PLANS.

NO AREAS OF DECK SLAB REPAIR (FULL DEPTH) HAVE BEEN FOUND FROM MARCH 24TH, 2021 DECK SURVEY. NO DECK SLAB REPAIR (FULL DEPTH) IS EXPECTED AFTER HYDROSCARIFICATION.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK CONCRETE OVERLAY AND NEW CONCRETE AREAS ADJACENT TO THE DECK JOINTS ONLY.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

SYNTHETIC FIBERS SHALL BE INCLUDED IN THE BRIDGE DECK CONCRETE SPECIFIED. SEE SPECIAL PROVISIONS.

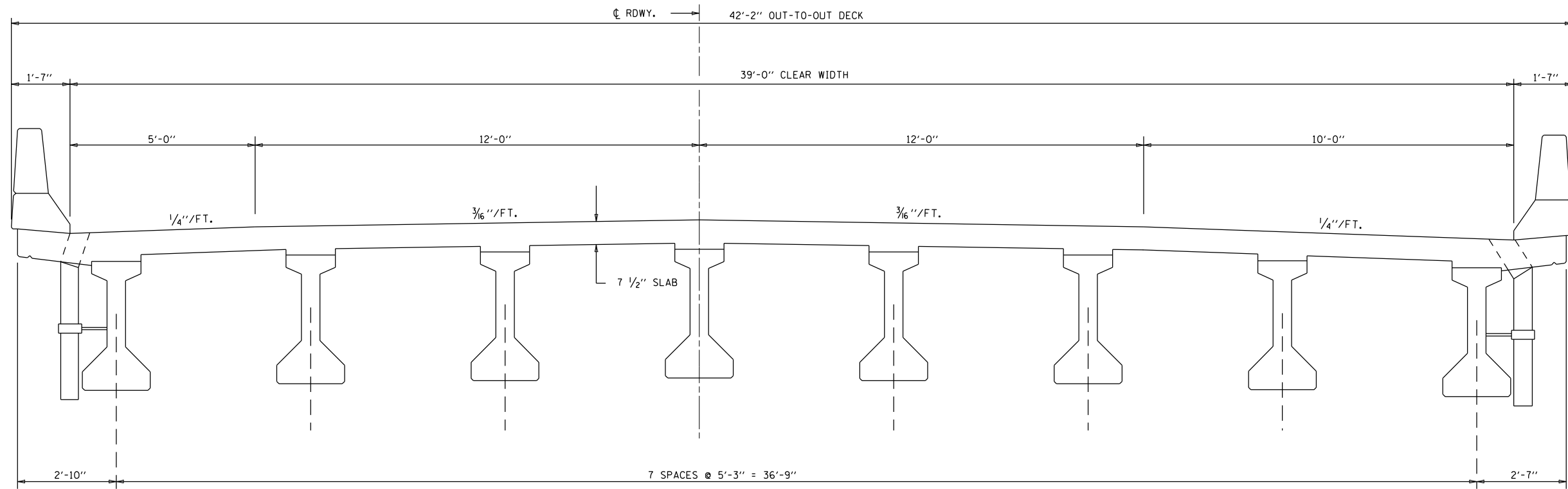
TOTAL BILL OF MATERIALS 010-0029 & 010-0030

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	21.6
CONCRETE SUPERSTRUCTURE	CU YD	26.2
PROTECTIVE COAT	SQ YD	1,785.0
REINFORCEMENT BARS, EPOXY COATED	POUND	4,760.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	9820.0
BAR SPLICERS	EACH	60.0
PREFORMED JOINT STRIP SEAL	FOOT	328.0
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	48.0
ANCHOR BOLTS 1"Ø	EACH	240.0
ACRYLIC COATING	SQ YD	204.0
FIBER WRAP	SQ FT	1,836.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,598.0
JACK AND REMOVE EXISTING BEARINGS	EACH	56.0
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/2"	SQ YD	1,698.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,698.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SQ FT	187.0
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,524.0
PPC CONCRETE I-BEAM REPAIR	SQ FT	454.0
TEMPORARY SHORING AND CRIBBING	EACH	12.0
REMOVAL OF EXISTING BEARINGS	EACH	8.0

EXISTING DECK CROSS SECTION

LOOKING WEST S.N. 010-0029

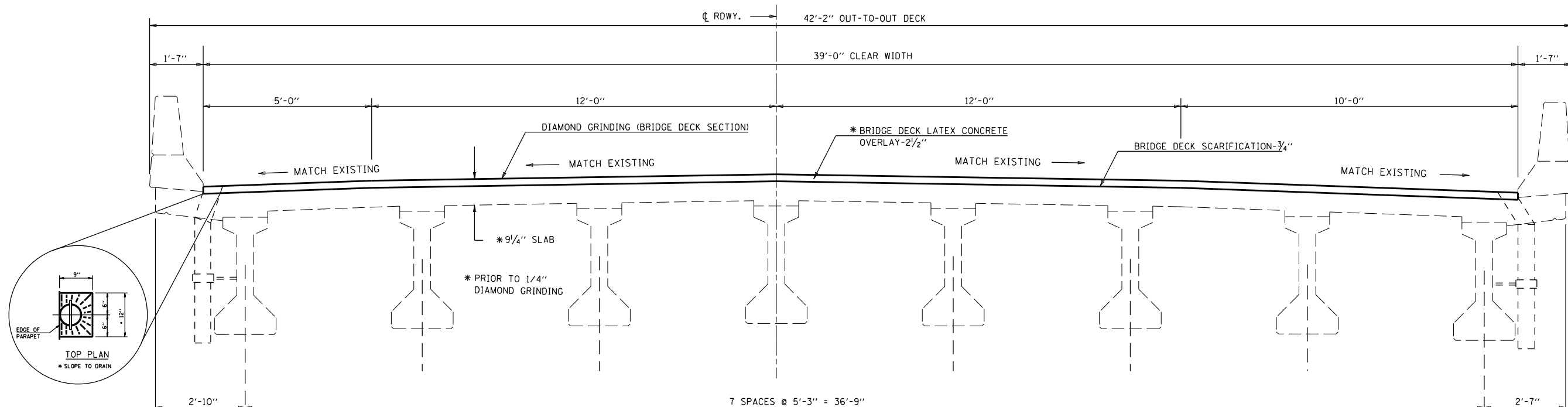
LOOKING EAST S.N. 010-0030



PROPOSED DECK CROSS SECTION

LOOKING WEST S.N. 010-0029

LOOKING EAST S.N. 010-0030

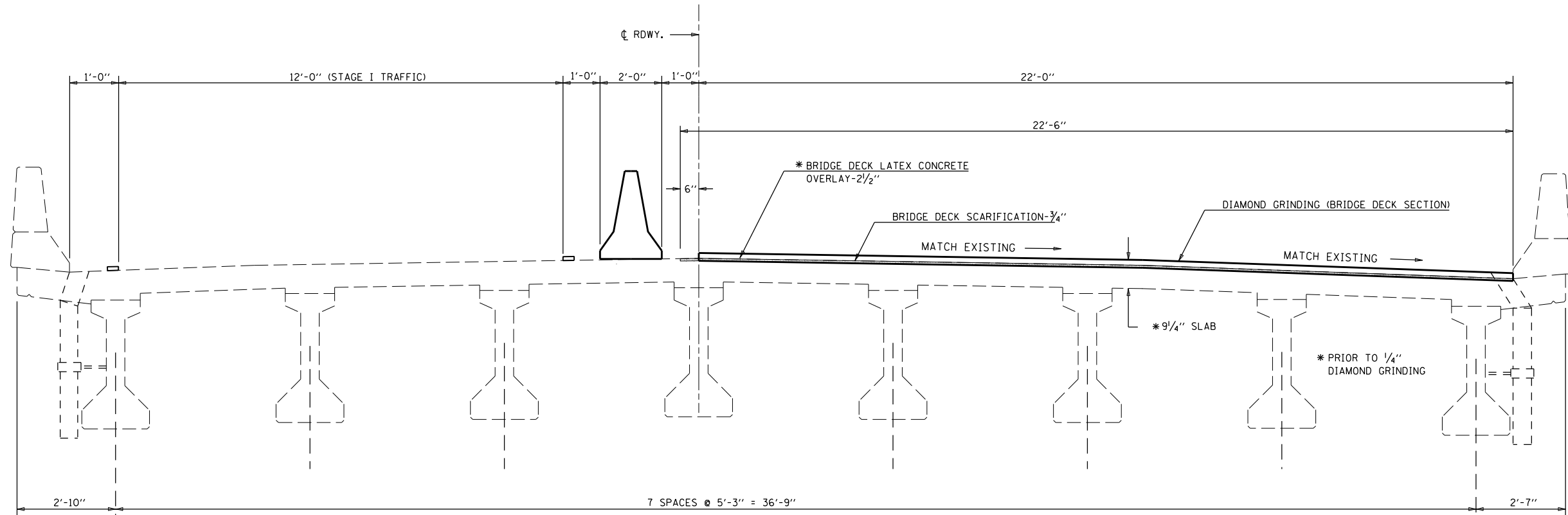


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p:\11dot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\2018-sh1-StructurePlans\REVISED - -	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -		74	(10-7,10-7B-1)BR	CHAMPAIGN	79	39	CONTRACT NO. 70E48	
PLOT DATE = 11/15/2021	DATE - 021318	REVISED - -	SCALE: 1" = 20'		SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT				

STAGE I CONSTRUCTION DETAIL

LOOKING WEST S.N. 010-0029

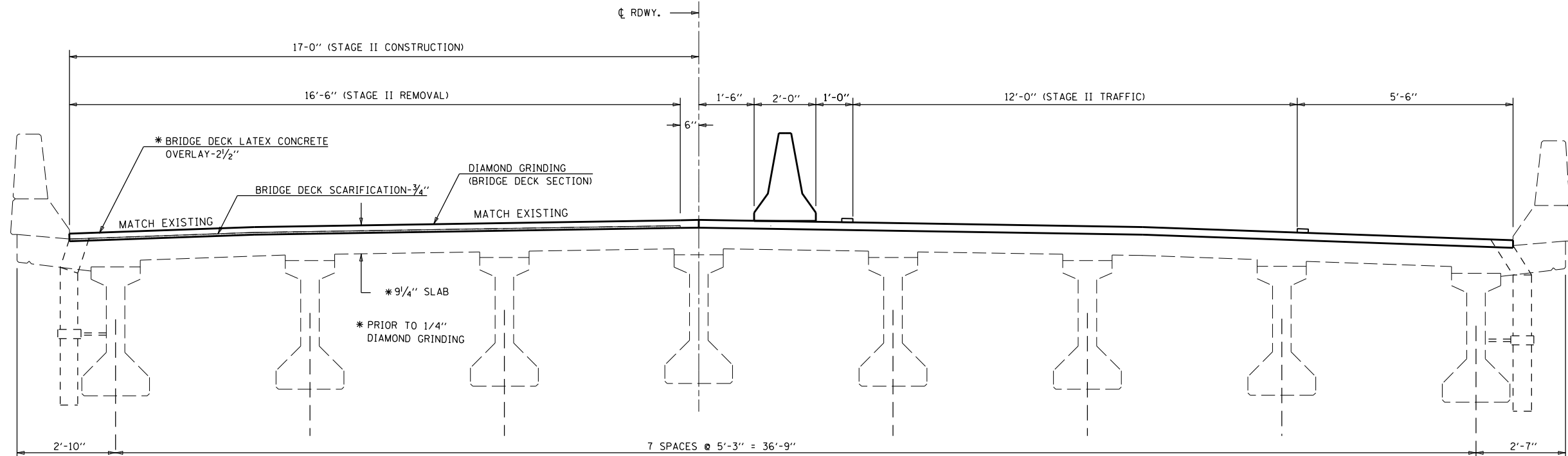
LOOKING EAST S.N. 010-0030



STAGE II CONSTRUCTION DETAIL

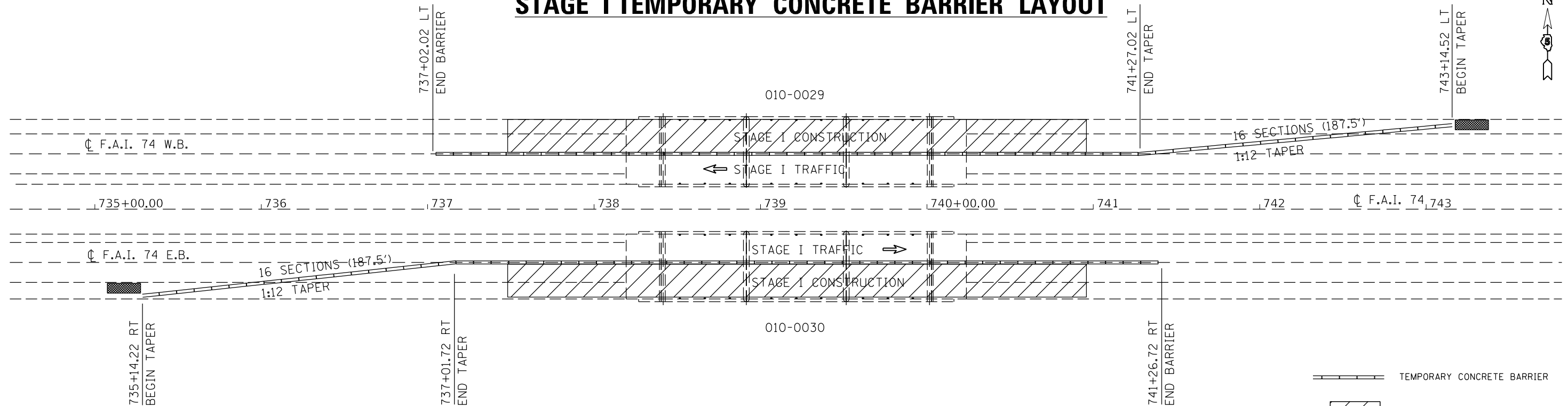
LOOKING WEST S.N. 010-0029

LOOKING EAST S.N. 010-0030

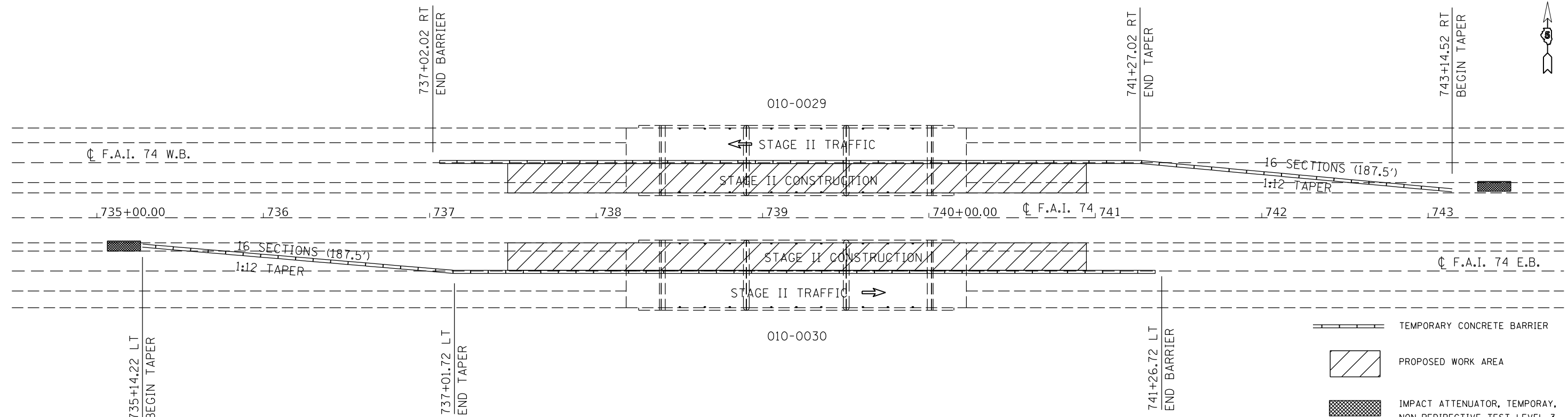


FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAIL S.N.(s) 010-0031 & 0032			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11dot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWN Structures\MS8-sh1-StructurePlans			REVISED - -		74	(10-7,10-7B)BR	CHAMPAIGN	79	40			
PLOT SCALE = 40.0000' / in.	CHECKED -	DATE - 021318	REVISED - -		CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT				
PLOT DATE = 9/27/2021			REVISED - -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA. _____ TO STA. _____					

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT



STAGE II TEMPORARY CONCRETE BARRIER LAYOUT



FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAIL S.N.(s) 010-0029 & 0030			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\1ldot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\2018-sh-t-StructurePlans\REVISED - -	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -		74	(10-7,10-7)BIBR	CHAMPAIGN	79	#1			
PLOT DATE = 9/27/2021	DATE - 021318	REVISED - -	REVISED - -		CONTRACT NO. 70E48							
					ILLINOIS FED. AID PROJECT							

70400100 TEMPORARY CONCRETE BARRIER

	<u>STATION</u>	<u>TO</u>	<u>STATION</u>		<u>LENGTH</u>
TAPER RT	853+89.97		RT 855+77.47	010-0029 WB	187.5
	RT 855+77.47		RT 860+02.47	010-0029 WB	425.0
	LT 855+91.43		LT 860+16.44	010-0030 EB	425.0
TAPER LT	860+16.44		RT 862+03.94	010-0030 EB	187.5
SUB-TOTAL =					1225.0

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	<u>STATION</u>	<u>TO</u>	<u>STATION</u>		<u>LENGTH</u>
TAPER LT	853+89.97		LT 855+77.47	010-0029 WB	187.5
	LT 855+77.47		LT 860+02.47	010-0029 WB	425.0
	RT 855+91.43		RT 860+16.44	010-0030 EB	425.0
TAPER RT	860+16.44		RT 862+03.94	010-0030 EB	187.5
SUB-TOTAL =					1225.0

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRTE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

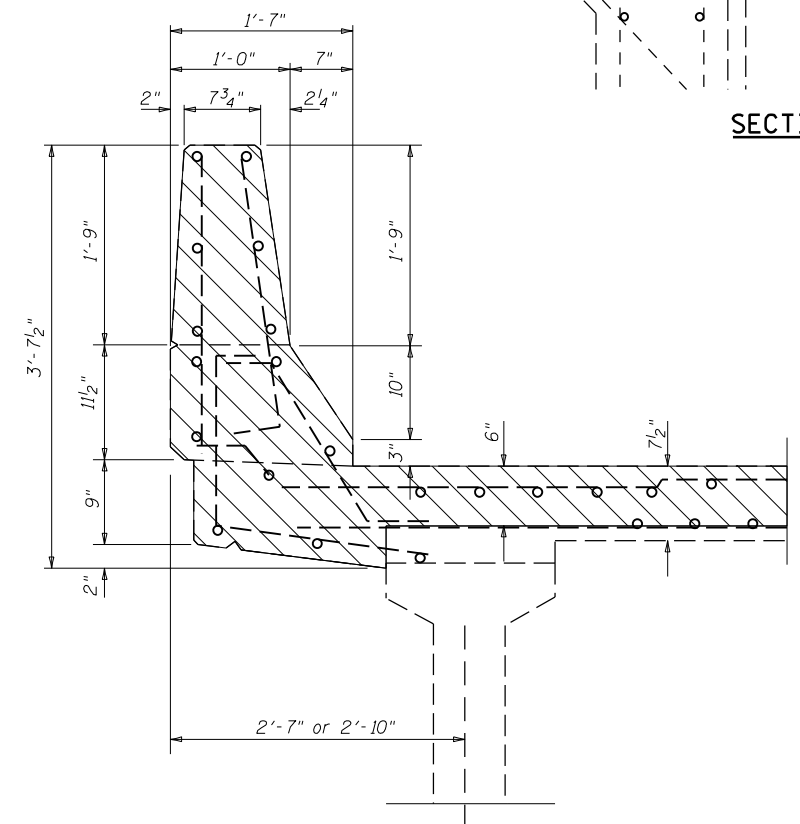
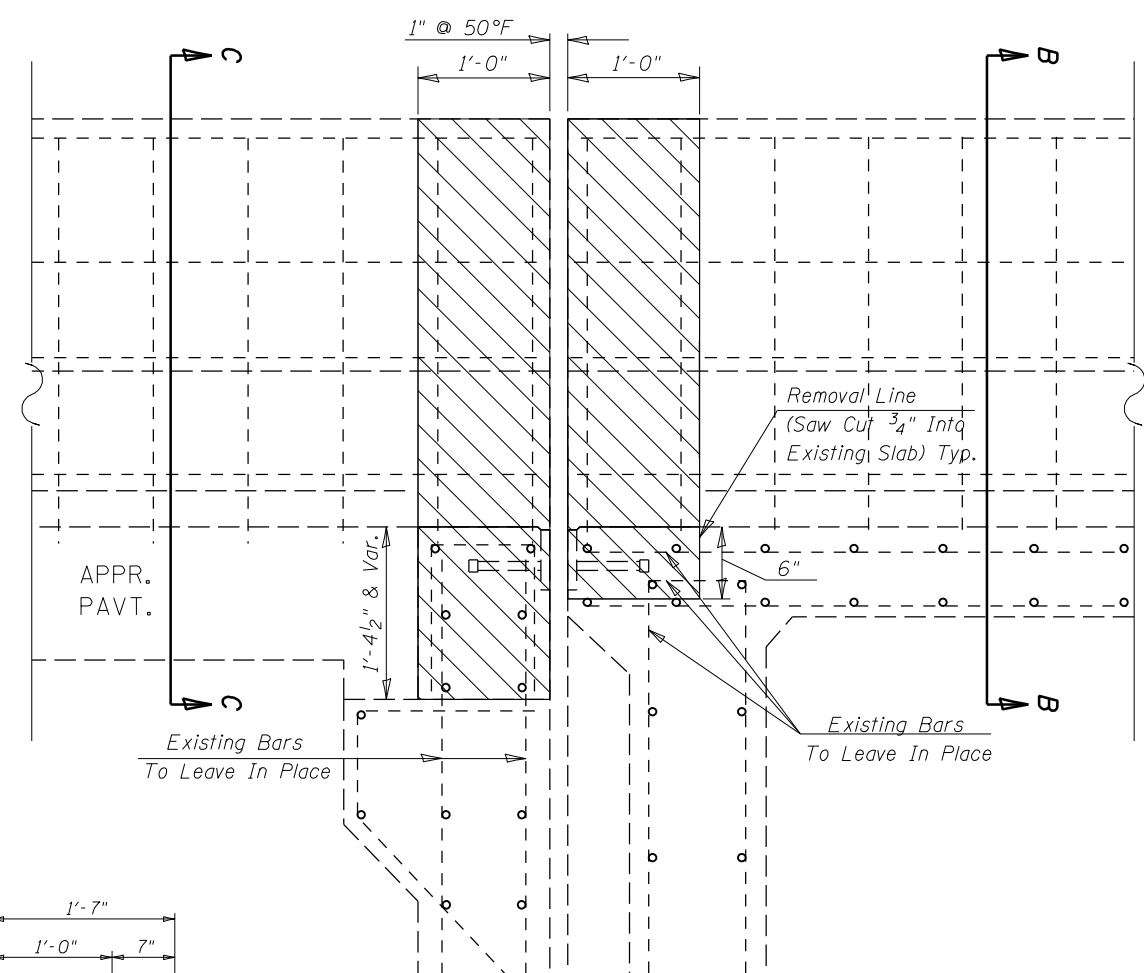
PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

SEE SPECIAL PROVISION FOR FILLING INLETS, TEMPORARY.

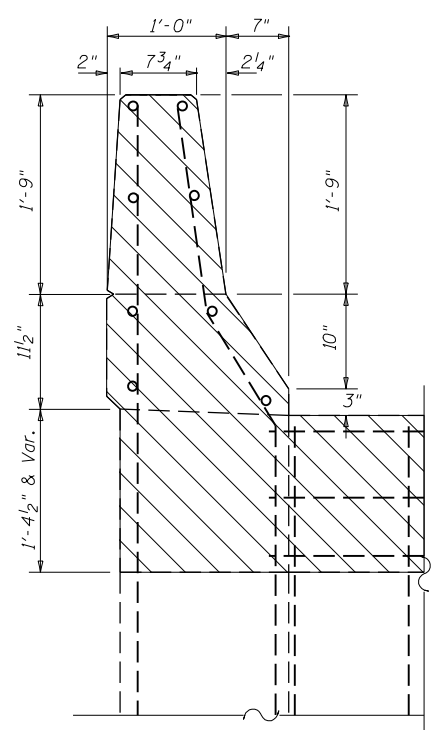
BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	1,225.0
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0
RELCOATE TEMP CONCRETE BARRIER	FOOT	1,225.0
REL IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

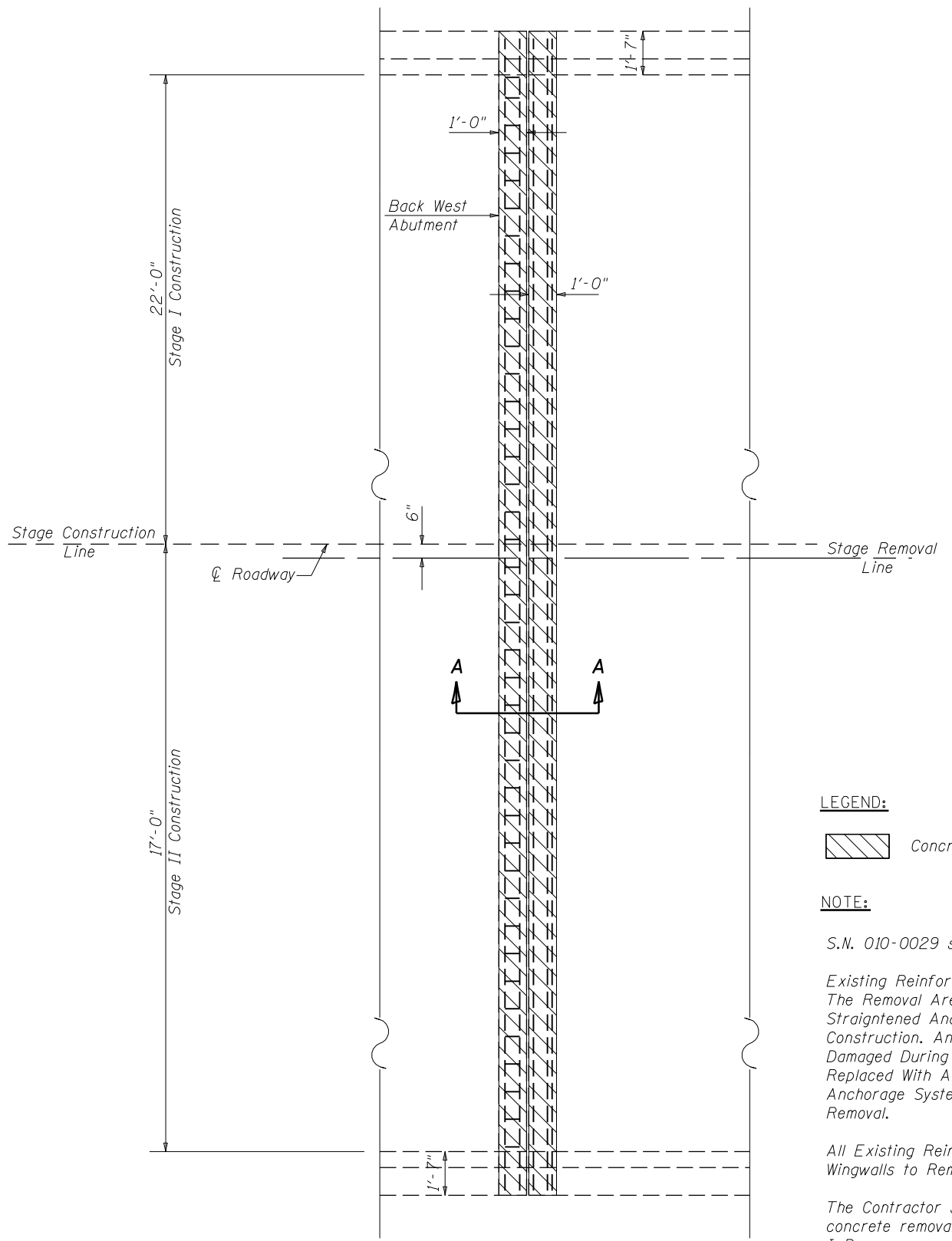
FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAIL S.N.(s) 010-0029 & 0030	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\010-0029-StructurePlans	PLotted	CHECKED -	REVISED - -			74	(10-7,10-7)BR	CHAMPAIGN	79	42	
PLOT SCALE = 40.0000' / in.	DATE - 021318	REVISIED - -	SCALE: NONE			SHEET NO. 3 OF 3 SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 70E48			
PLOT DATE = 9/27/2021	DATE - 021318	REVISIED - -	ILLINOIS FED. AID PROJECT								



SECTION A-A



SECTION C-C



PLAN VIEW

West Abutment Shown
East Abutment similar by rotation

LEGEND:

Concrete Removal

NOTE:

S.N. 010-0029 shown, 010-0030 similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	13.2

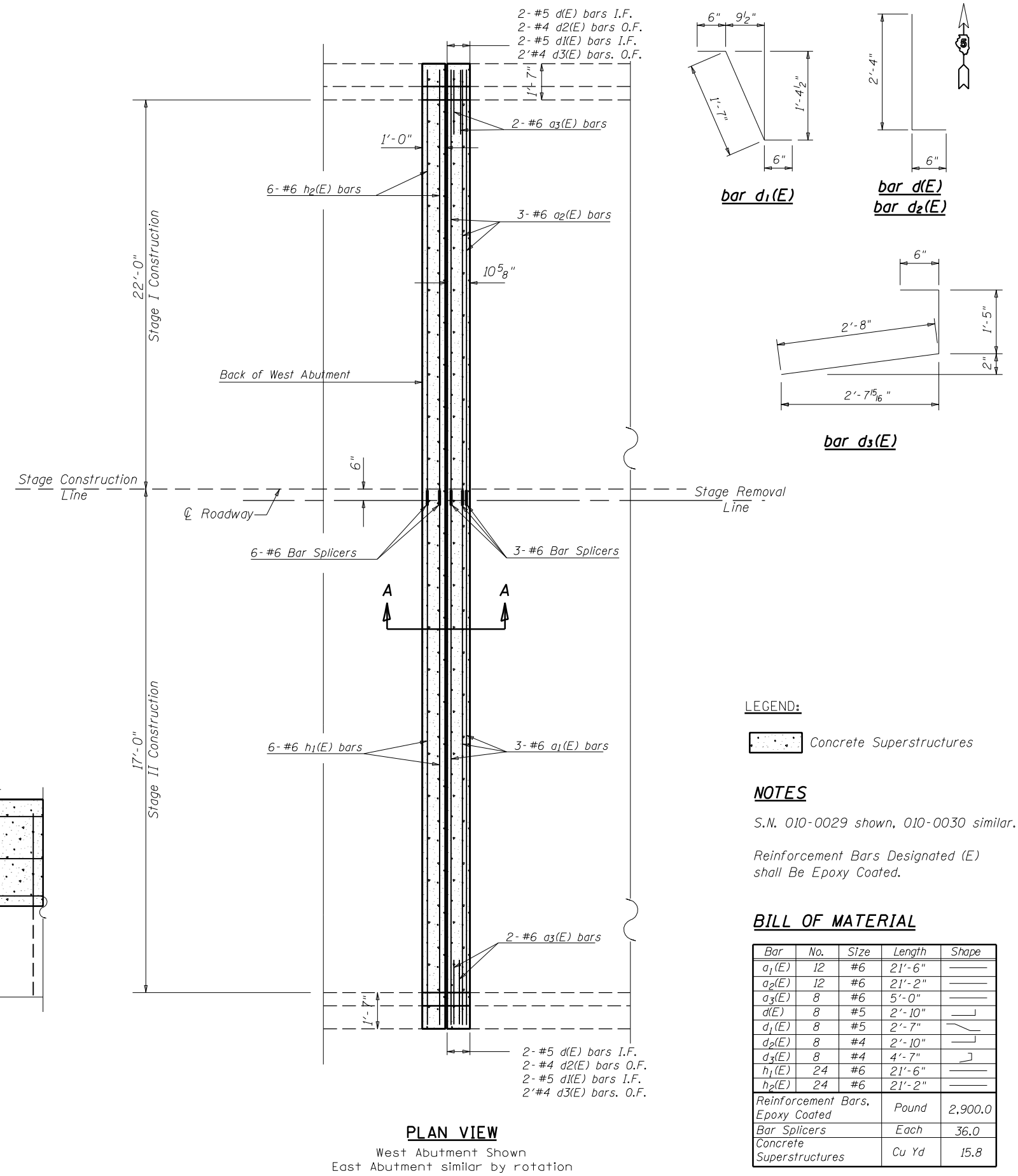
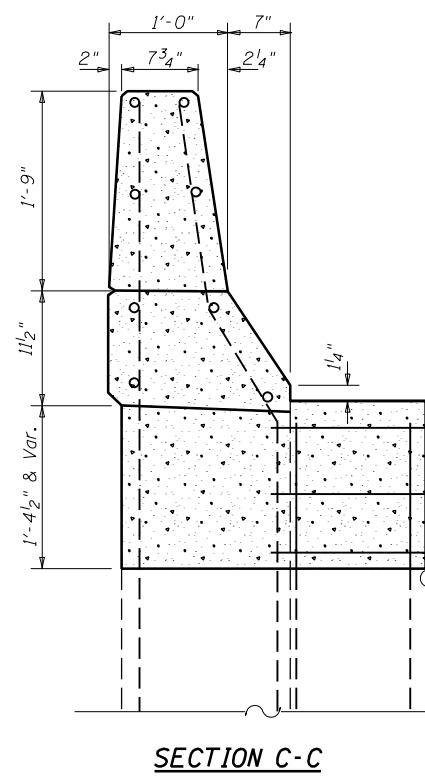
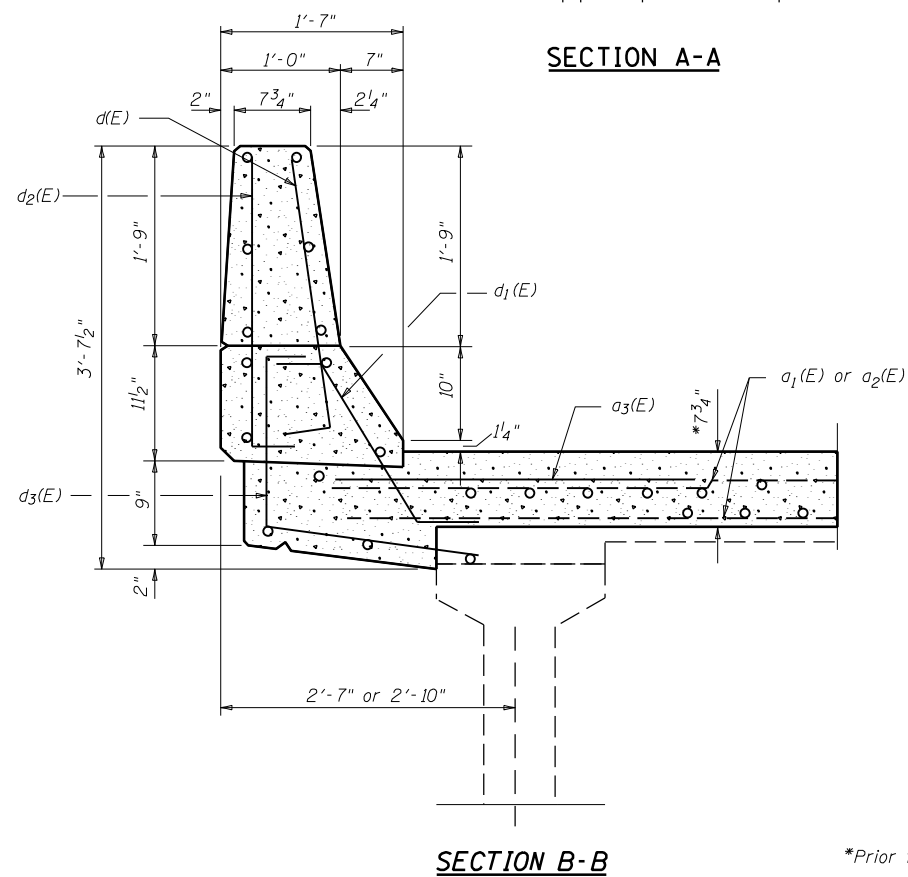
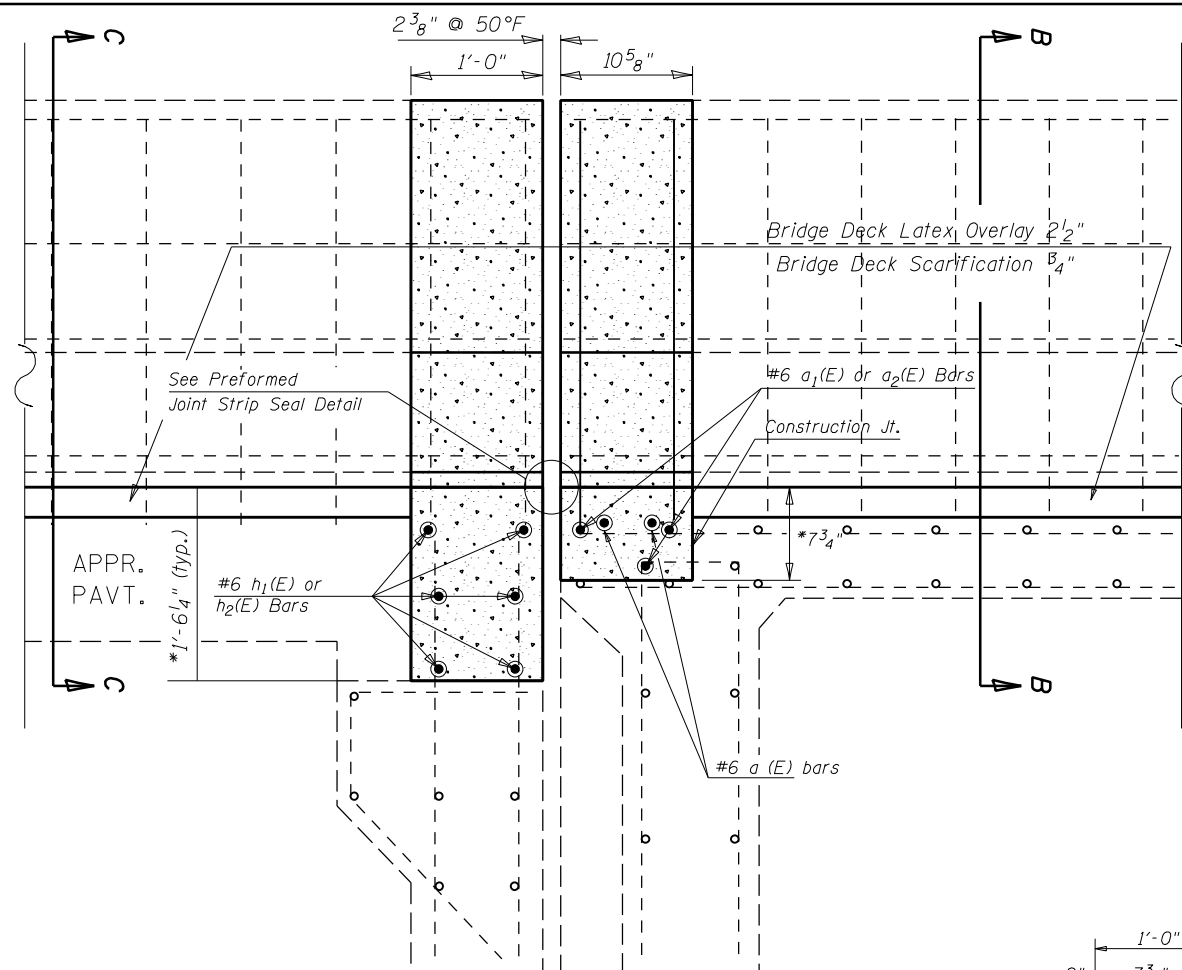
FILE NAME =	USER NAME = sherer-JM	DESIGNED - JMS	REVISED - -
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\2018-shr-StructurePlans\REVISED - -		CHECKED -	REVISED - -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED - -
	PLOT DATE = 11/15/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF CONCRETE REMOVAL AT ABUTMENTS
S.N.(s) 010-0029 & 0030

SCALE: NONE SHEET NO. 1 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	43
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



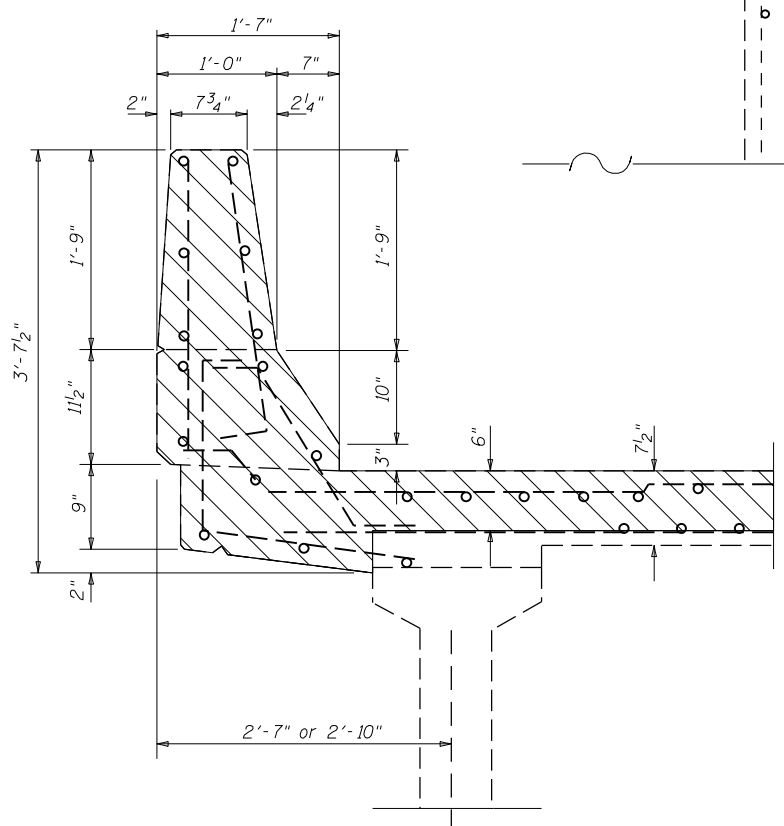
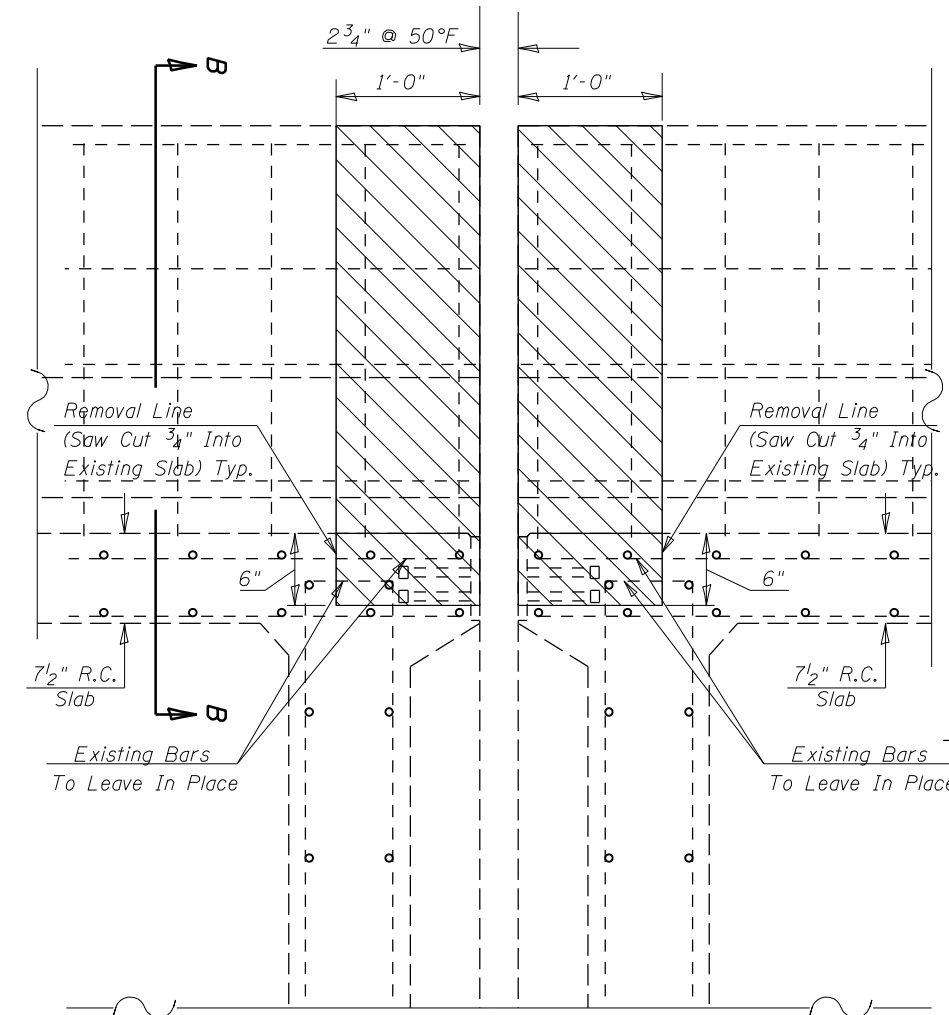
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px:\1ldot-pw.bentley.com\PROJECTS\DOT\District 5\Projects\0570E48\CD\Drawings\Structures\2018-shr-StructurePlans\REVISED - -		CHECKED -	REVISED - -
PLOT SCALE = 40.0000' / in.		DATE - 030518	REVISED - -
PLOT DATE = 11/15/2021			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF CONCRETE SUPERSTRUCTURE AT ABUTMENTS
S.N.(s) 010-0029 & 0030

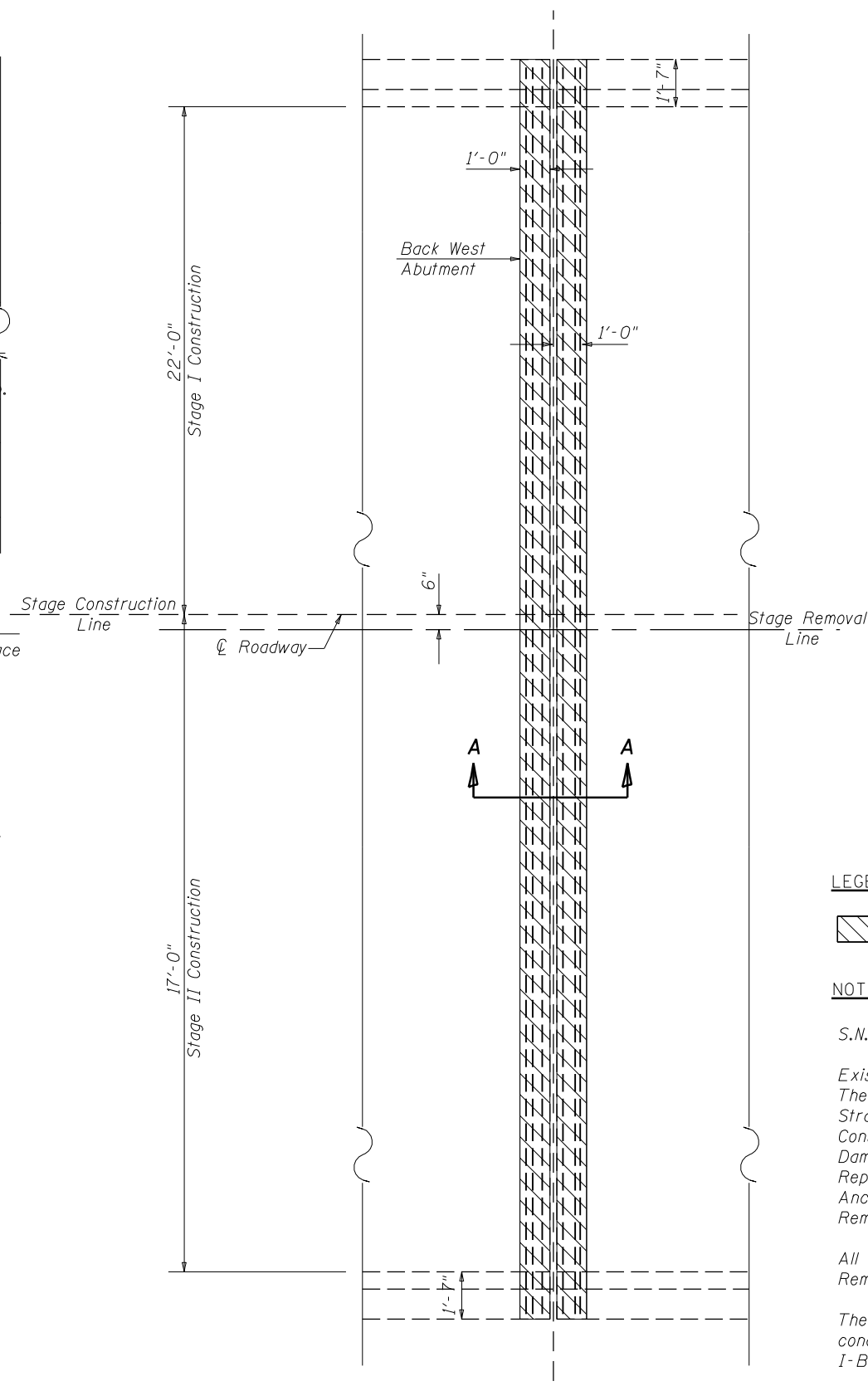
SCALE: NONE SHEET NO. 2 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	44
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



SECTION A-A

SECTION B-B



LEGEND:

Concrete Removal

NOTE:

S.N. 010-0029 shown, 010-0030 similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	4.0

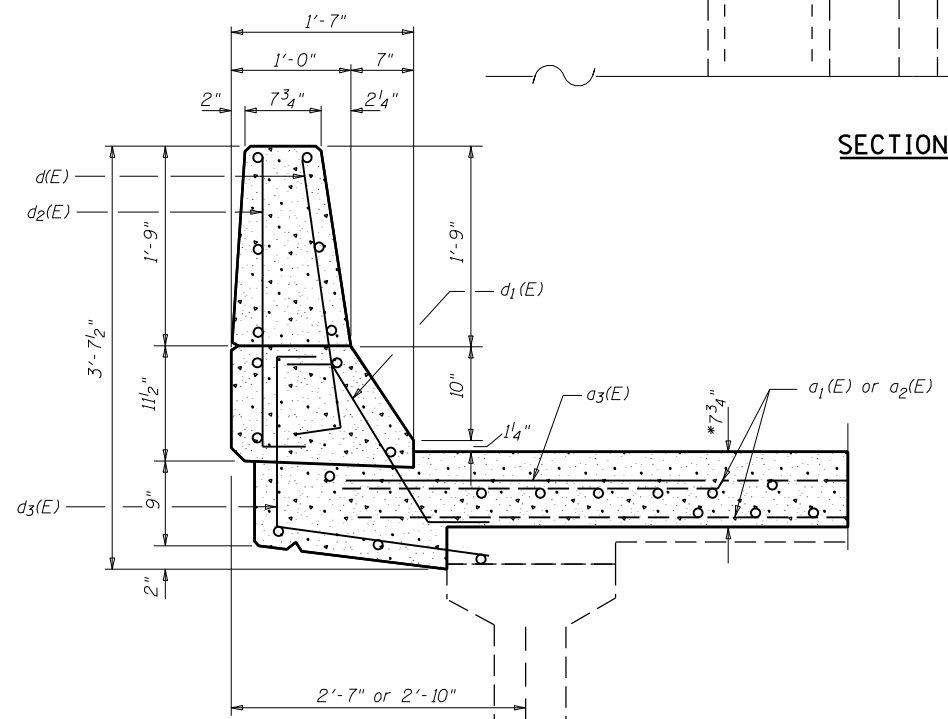
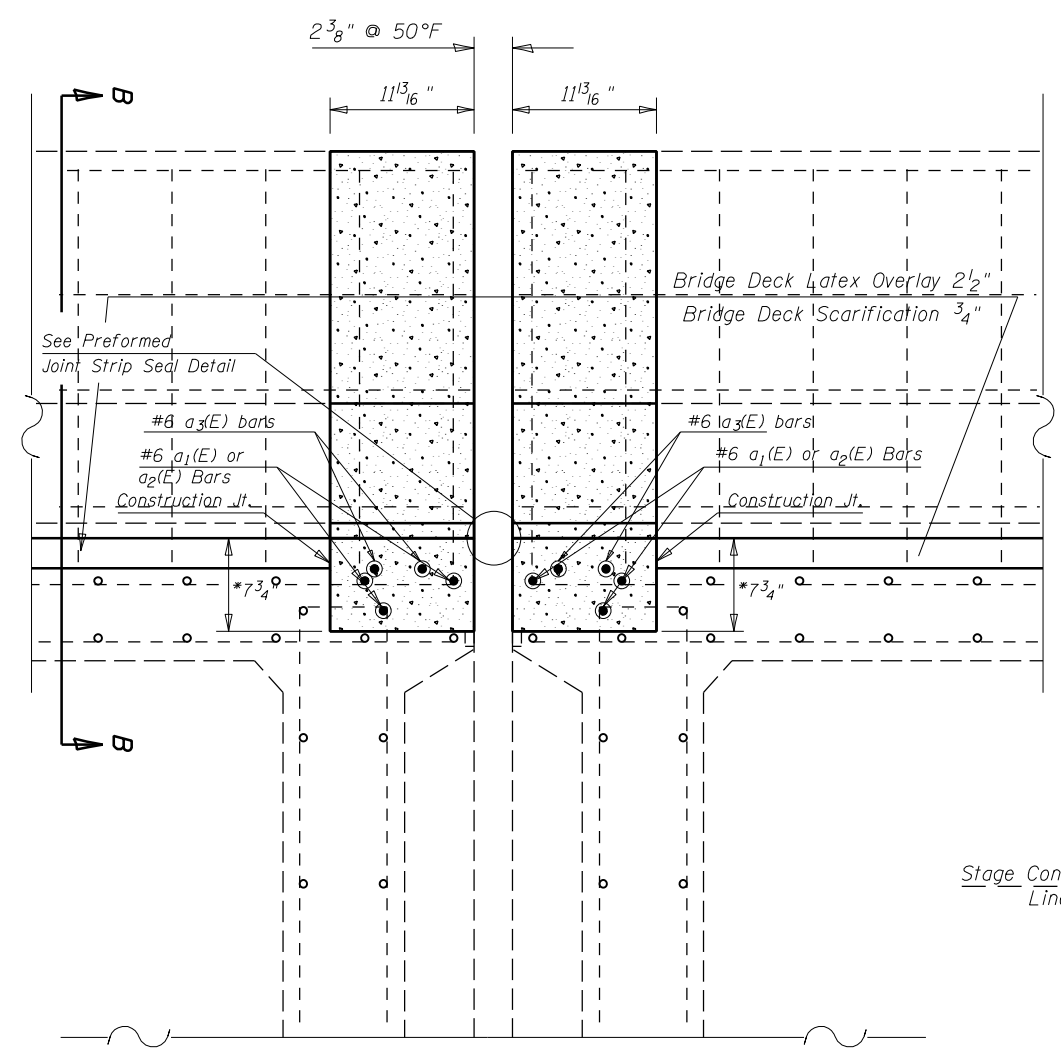
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px:\1ldot-pw.bentley.com\PIWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\2018-sh1-StructurePlans	PROJECT = 0570E48	CHECKED -	REVISED - -
	PLOT SCALE = 40.0000' / in.	DATE - 030518	REVISED - -
	PLOT DATE = 11/15/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REMOVAL PIER 1
S.N.(s) 010-0029 & 0030**

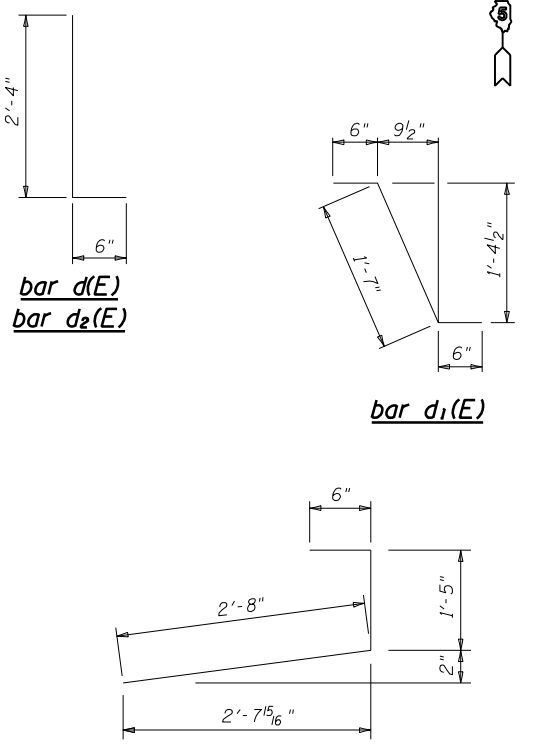
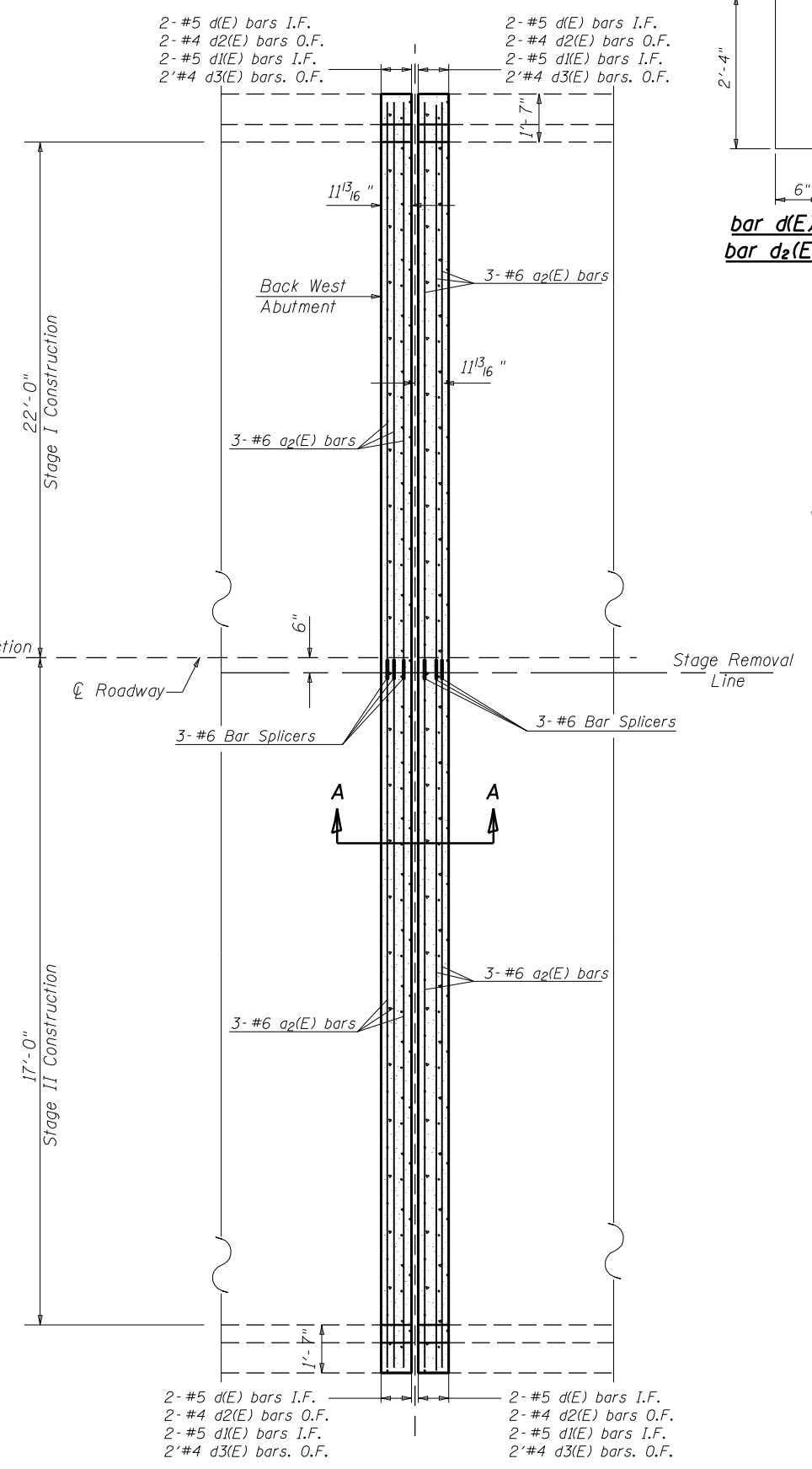
SCALE: NONE SHEET NO. 3 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	45
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



SECTION B-B

*Prior to 1/4" Diamond Grinding



LEGEND:
 Concrete Superstructures

NOTES
 S.N. 010-0029 shown, 010-0030 similar.
 Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

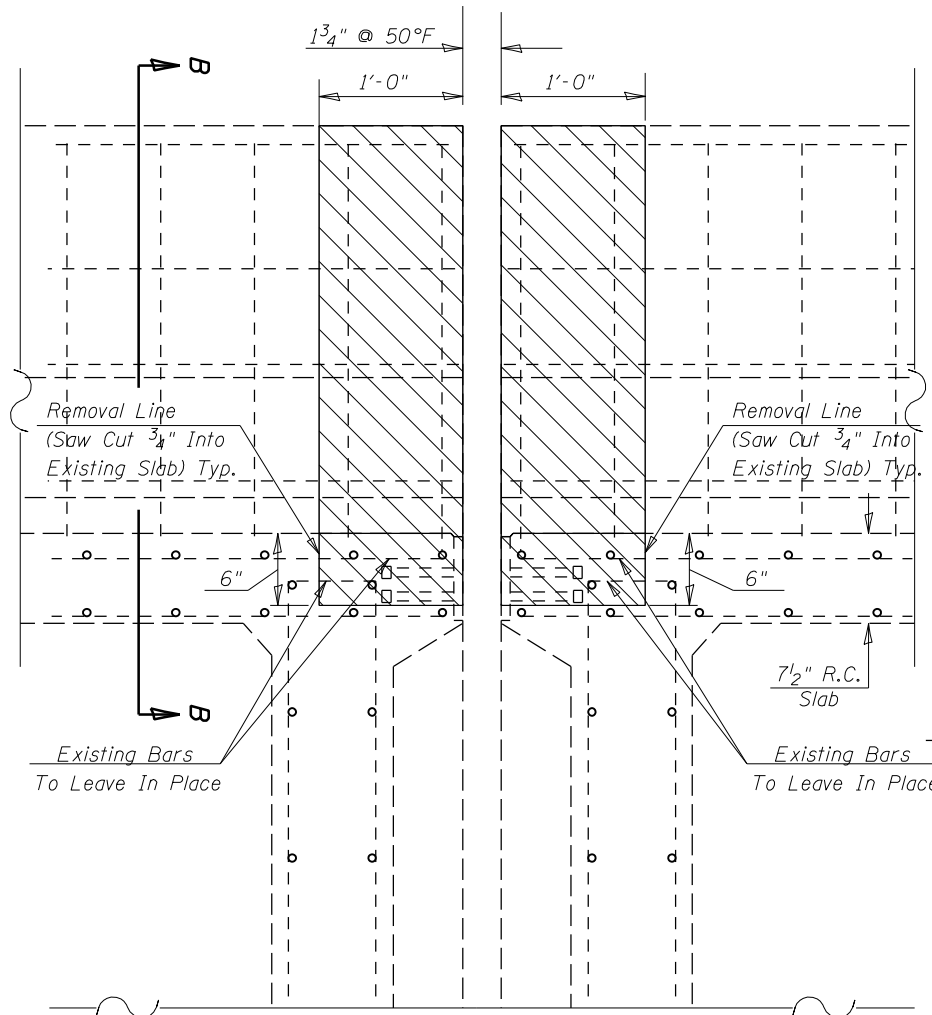
Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	21'-6"	—
a ₂ (E)	12	#6	21'-2"	—
a ₃ (E)	8	#6	5'-0"	—
d(E)	8	#5	2'-10"	┘
d ₁ (E)	8	#5	2'-7"	┘
d ₂ (E)	8	#4	2'-10"	┘
d ₃ (E)	8	#4	4'-7"	┘
Reinforcement Bars, Epoxy Coated			Pound	930.0
Bar Splicers			Each	12.0
Concrete Superstructures			Cu Yd	5.0

FILE NAME =	USER NAME = sherer-JM	DESIGNED - JMS	REVISED - -
PROJECT =	PROJECT =	CHECKED -	REVISED - -
PLOT SCALE = 40.0000' / in.	DATE = 030518	DATE = 030518	REVISED - -

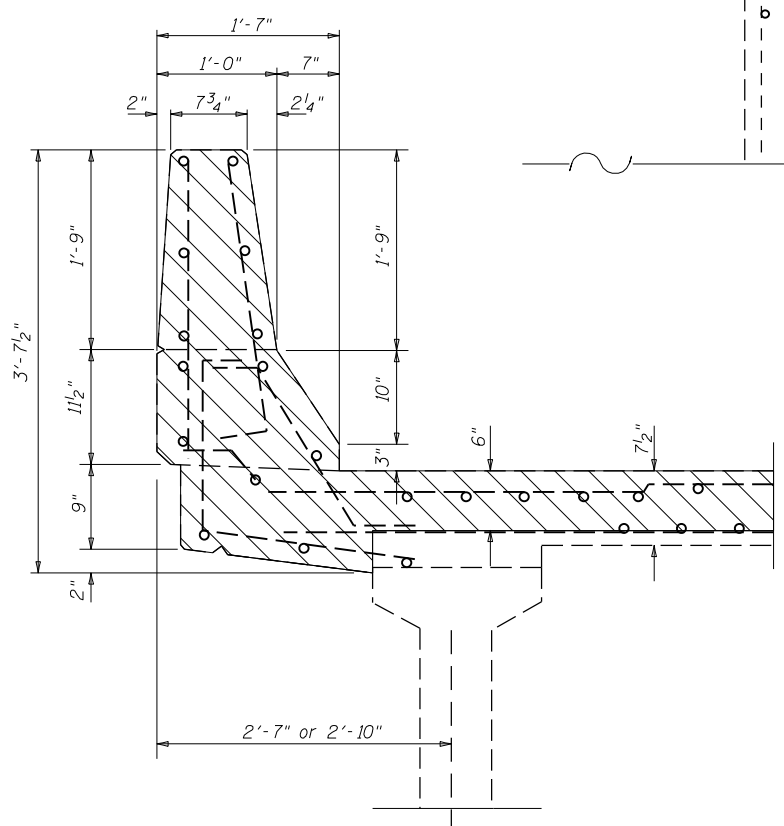
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF CONCRETE SUPERSTRUCTURE PIER 1
S.N.(s) 010-0029 & 0030
 SCALE: NONE SHEET NO. 4 OF 8 SHEETS STA. _____ TO STA. _____

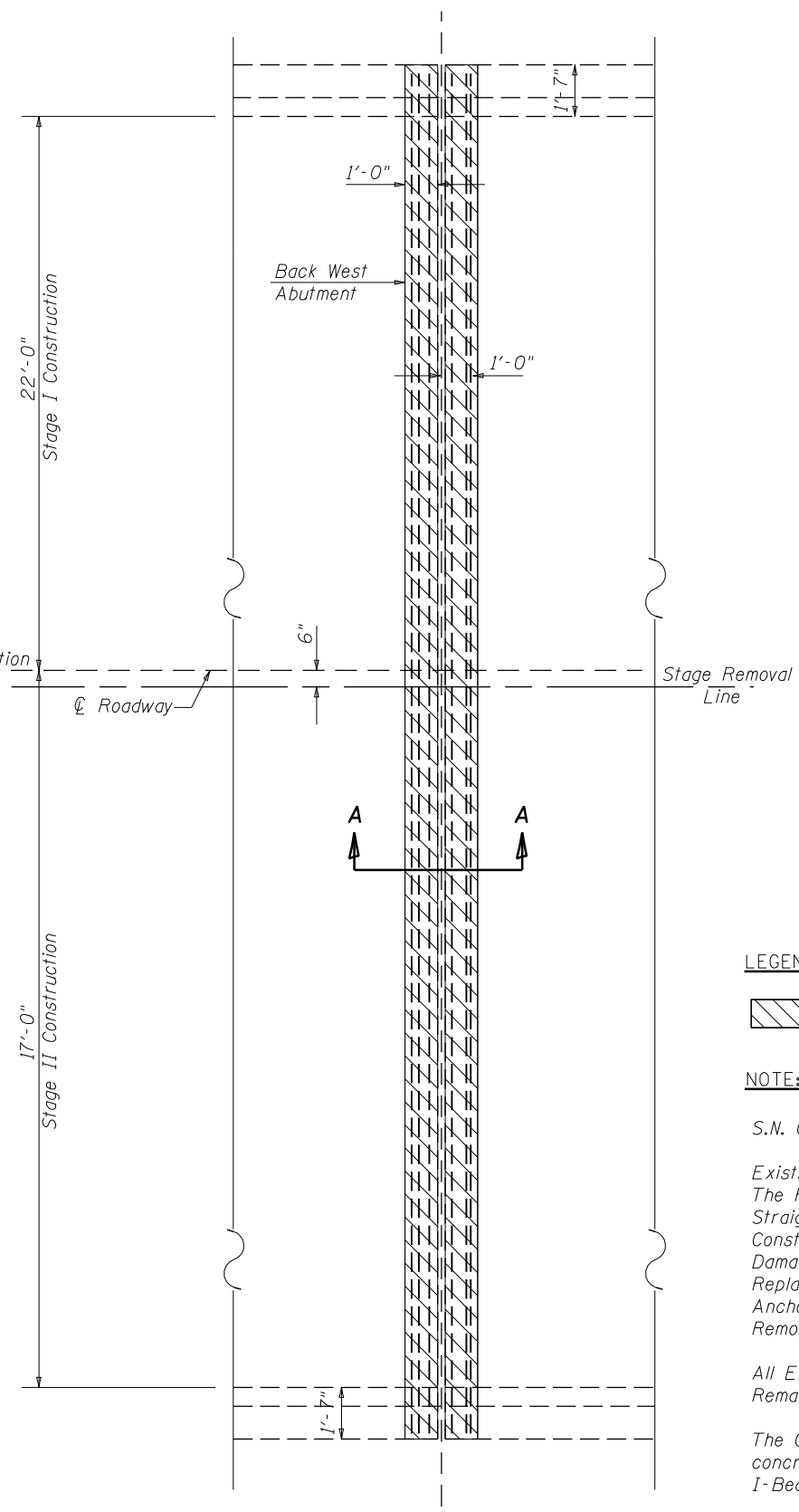
F.A.L. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	46
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



LEGEND:

Concrete Removal

NOTE:

S.N. 010-0029 shown, 010-0030 similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	4.0

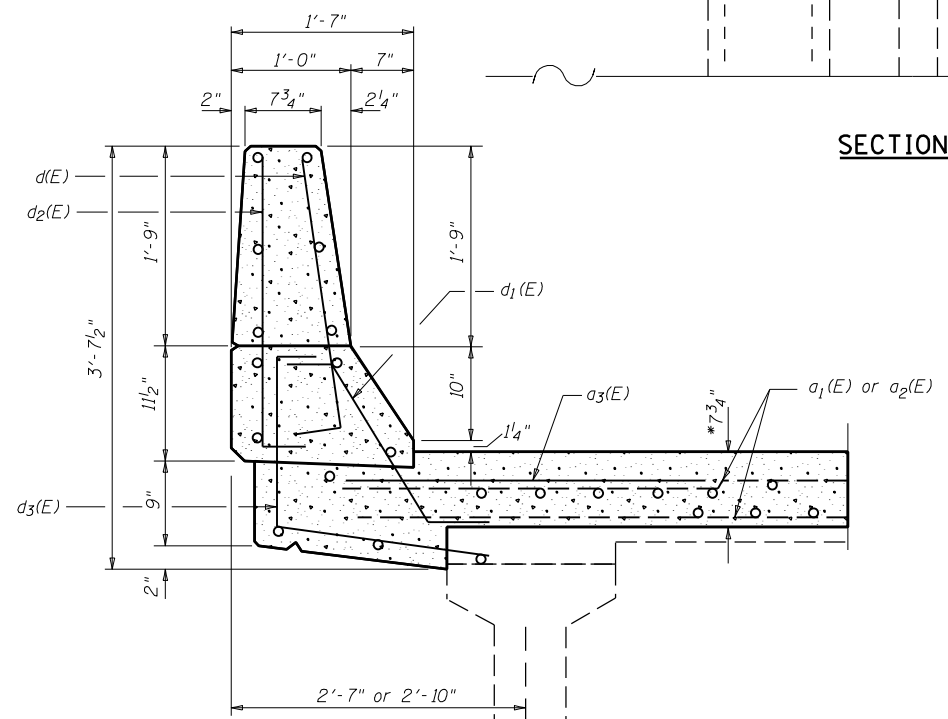
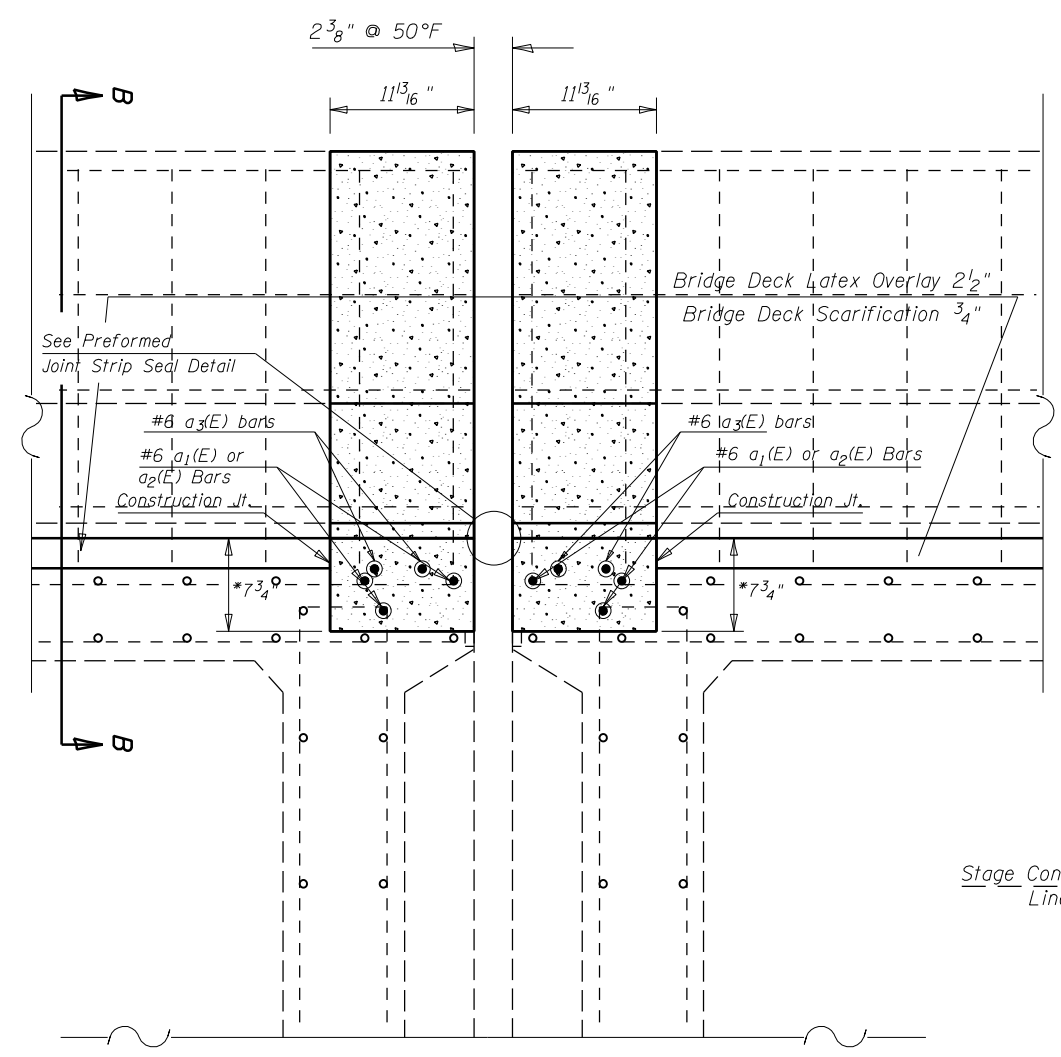
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p:\11dot-pw.bentley.com\PROJECTS\11DOT\Documents\11DOT\11DOT\District 5\Projects\0570E48\0570E48\Drawings\Structures\2018-sh1-StructurePlans		CHECKED -	REVISED - -
PLOT SCALE = 40.0000' / in.		DATE - 030518	REVISED - -
PLOT DATE = 11/15/2021			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL CONCRETE REMOVAL PIER 2
S.N.(s) 010-0029 & 0030**

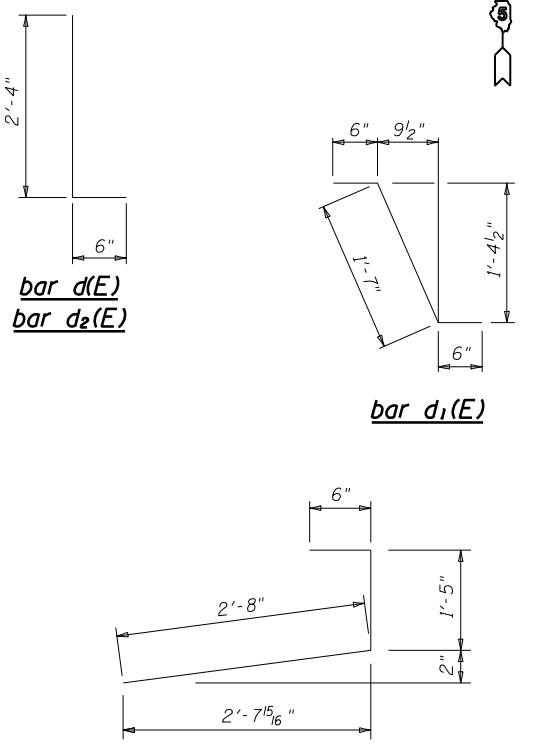
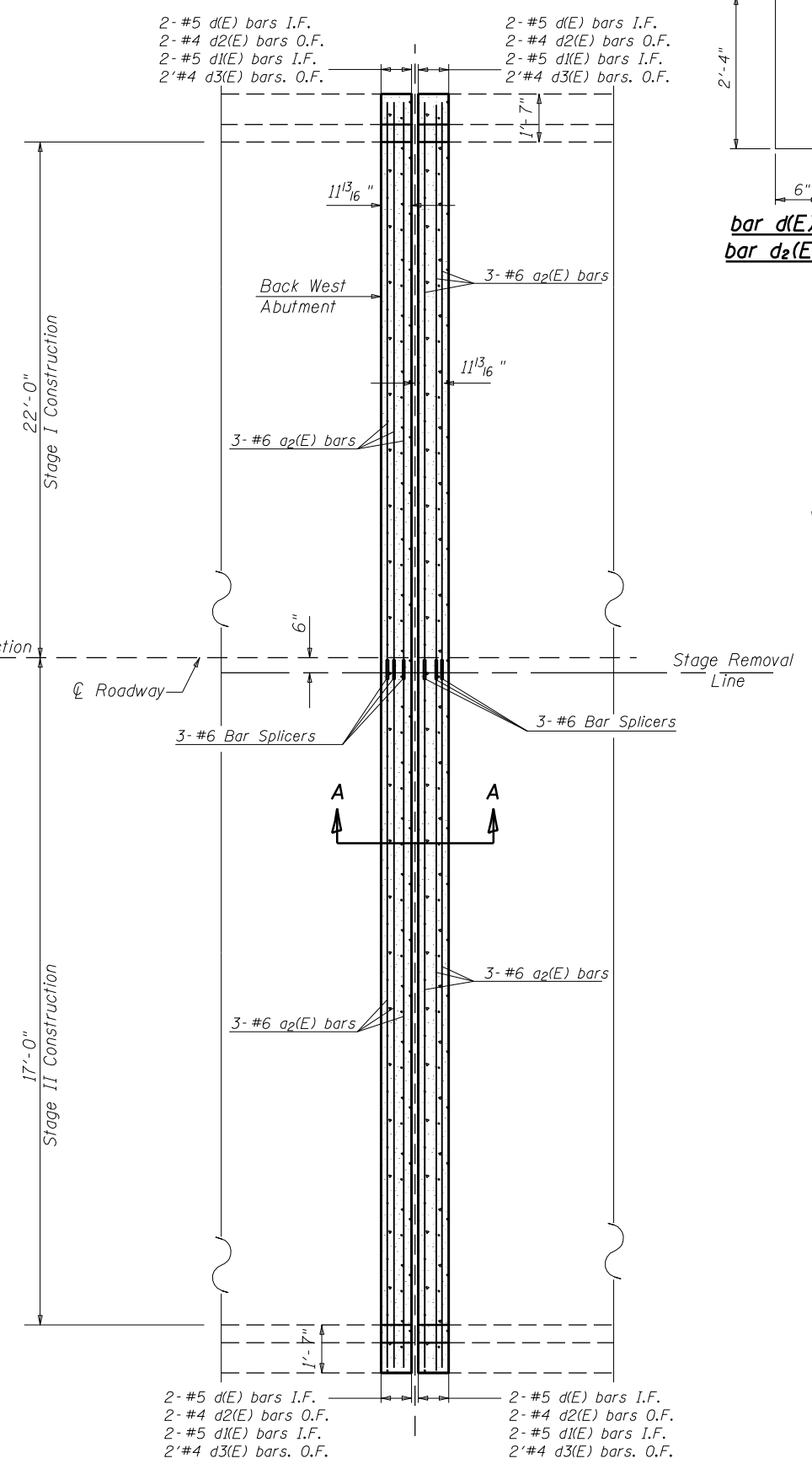
SCALE: NONE SHEET NO. 5 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	47
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



SECTION B-B

*Prior to 1/4" Diamond Grinding



LEGEND:

Concrete Superstructures

NOTES

S.N. 010-0029 shown, 010-0030 similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	12	#6	21'-6"	—
a ₂ (E)	12	#6	21'-2"	—
a ₃ (E)	8	#6	5'-0"	—
d(E)	8	#5	2'-10"	┘
d ₁ (E)	8	#5	2'-7"	┘
d ₂ (E)	8	#4	2'-10"	┘
d ₃ (E)	8	#4	4'-7"	┘
Reinforcement Bars, Epoxy Coated		Pound	930.0	
Bar Splicers		Each	12.0	
Concrete Superstructures		Cu Yd	5.0	

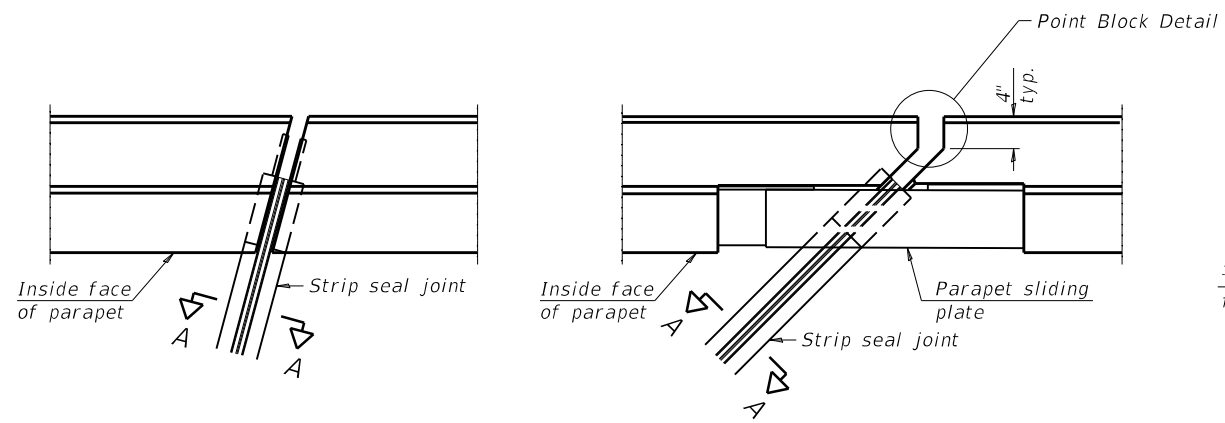
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PROJECT =	PROJECT =	CHECKED -	REVISED - -
PLOT SCALE = 40.0000' / in.	DATE = 030518	DATE = 030518	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

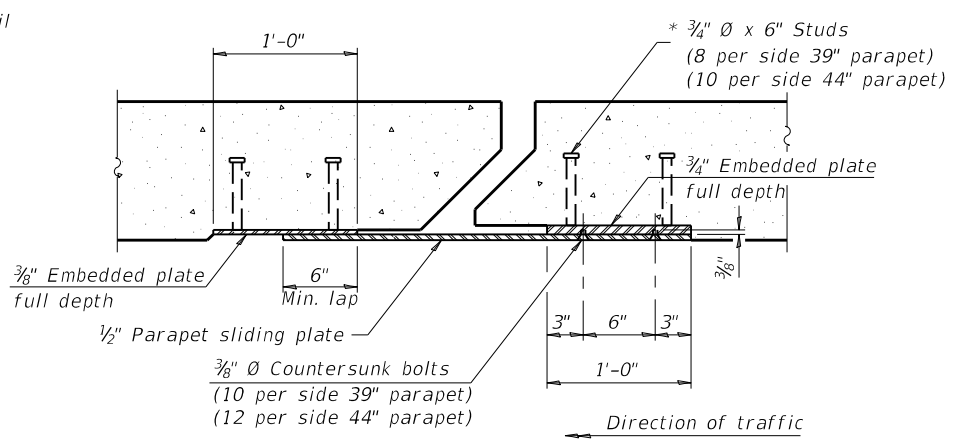
**DETAIL OF CONCRETE SUPERSTRUCTURE PIER 2
S.N.(s) 010-0029 & 0030**

SCALE: NONE SHEET NO. 6 OF 8 SHEETS STA. _____ TO STA. _____

F.A.L. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	48
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



PLAN AT PARAPET



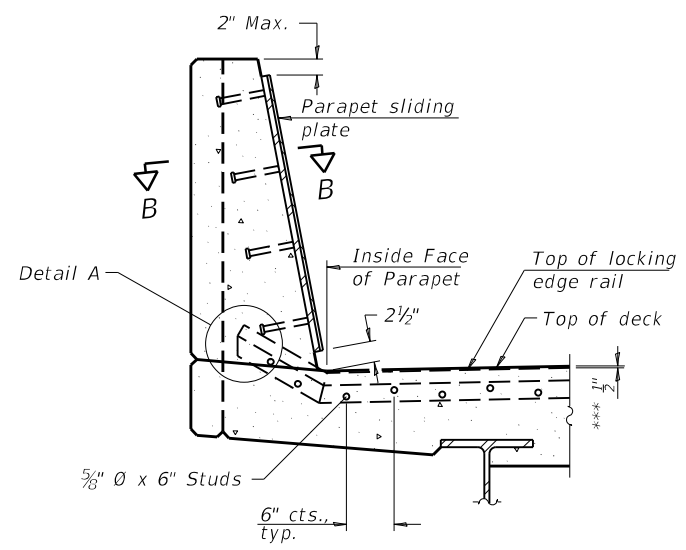
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

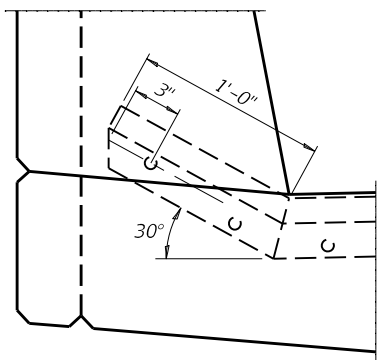
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

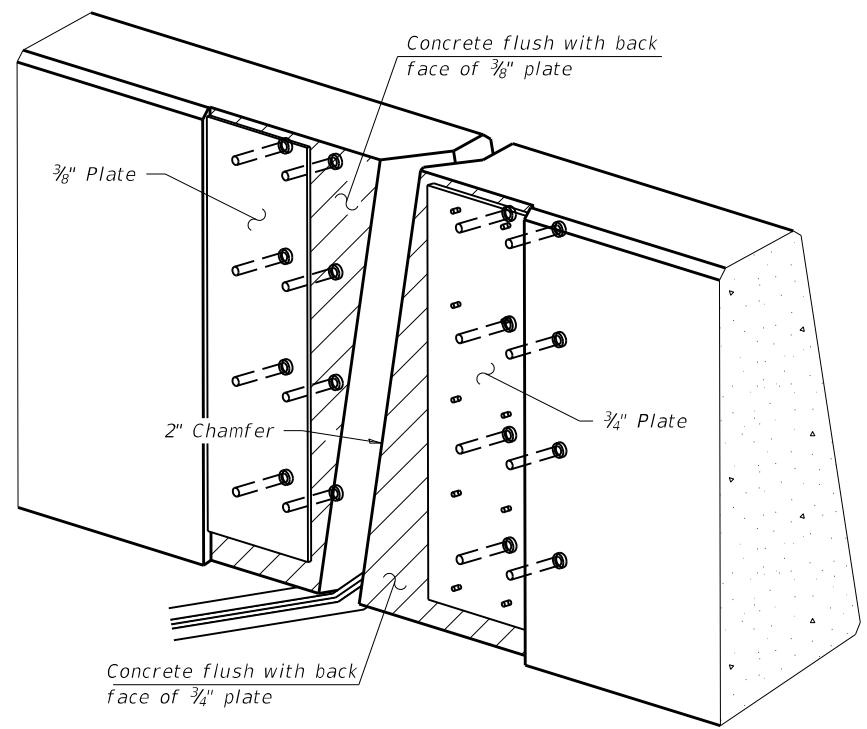


SECTION AT PARAPET

(Skews > 30° shown. Skews <= 30° similar except as shown in plan view.)

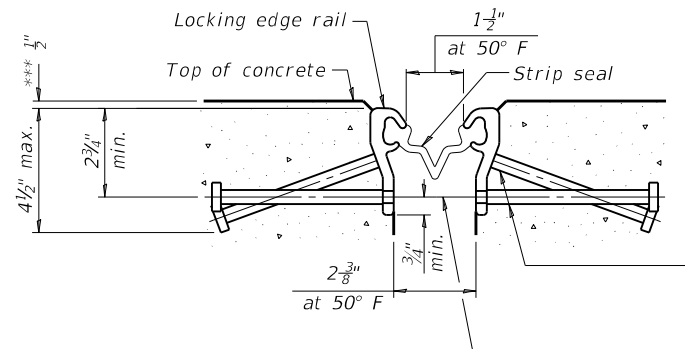


DETAIL A



TRIMETRIC VIEW

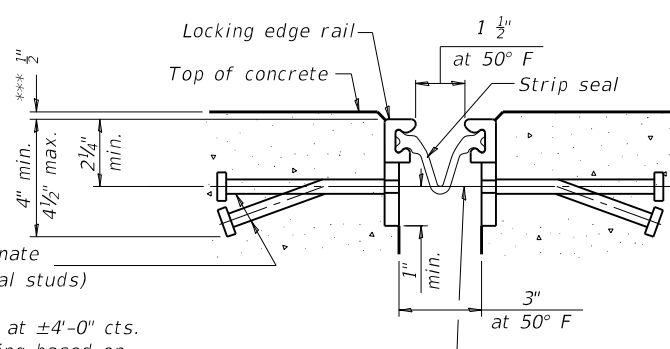
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

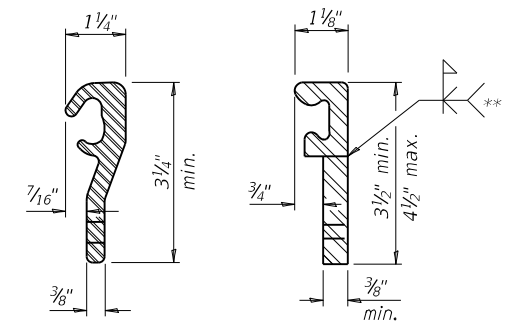


SHOWING WELDED RAIL JOINT

SECTION A-A

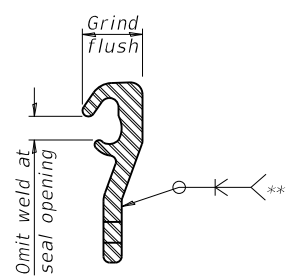
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

*** Prior to Diamond Grinding



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

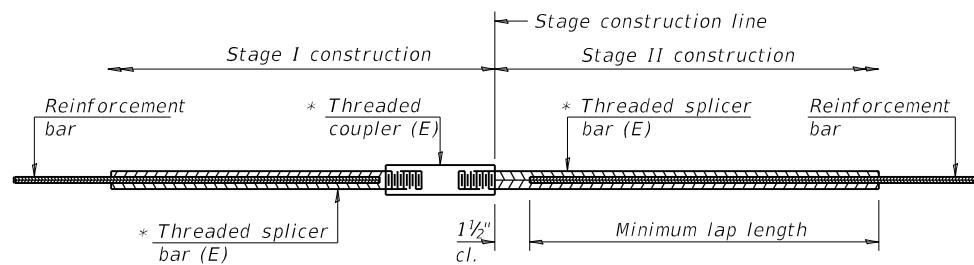
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	328.0

EJ-SS

1-1-2020

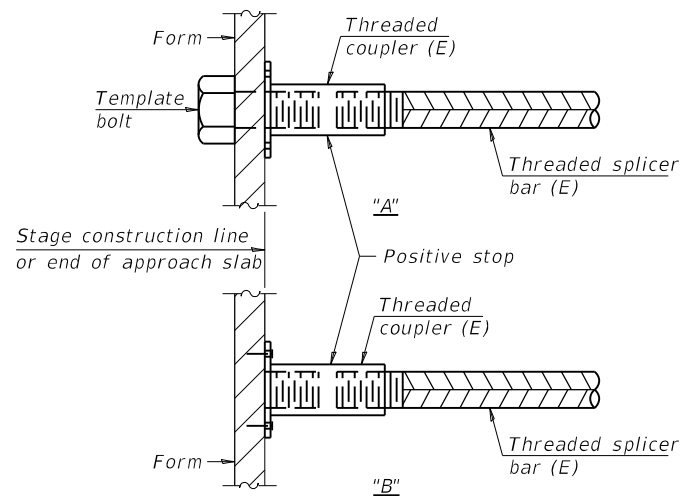


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

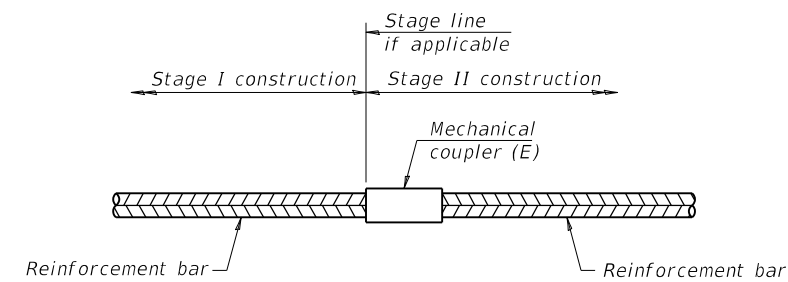
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
East Abutment	#6	10.0	4'-0"
West Abutment	#6	10.0	4'-0"
Pier #1	#6	12.0	4'-10"
Pier #2	#6	12.0	4'-10"



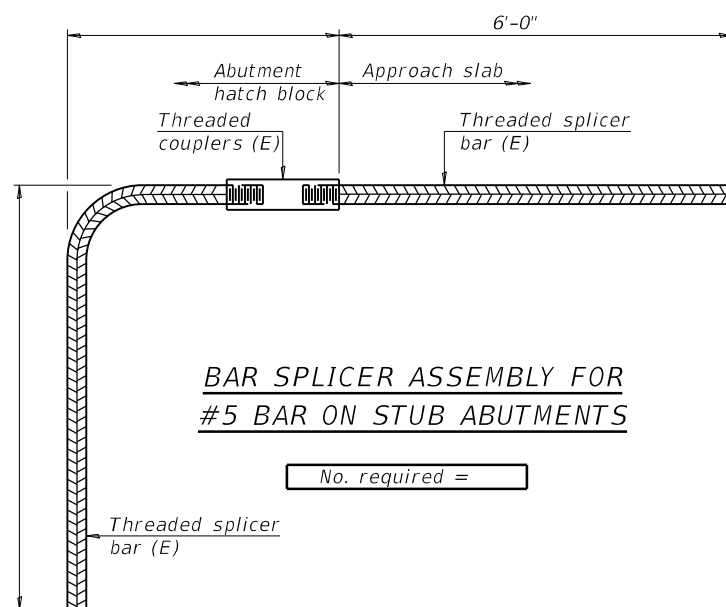
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: \\MODELS\MAME\...
 FILE: \\MODELS\MAME\...

BSD-1

2-17-2017

USER NAME = shererjm	DESIGNED - JMS	REVISED - _____
DRAWN - JMS	REVISIONS - _____	
PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = 11/15/2021	DATE - 042621	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

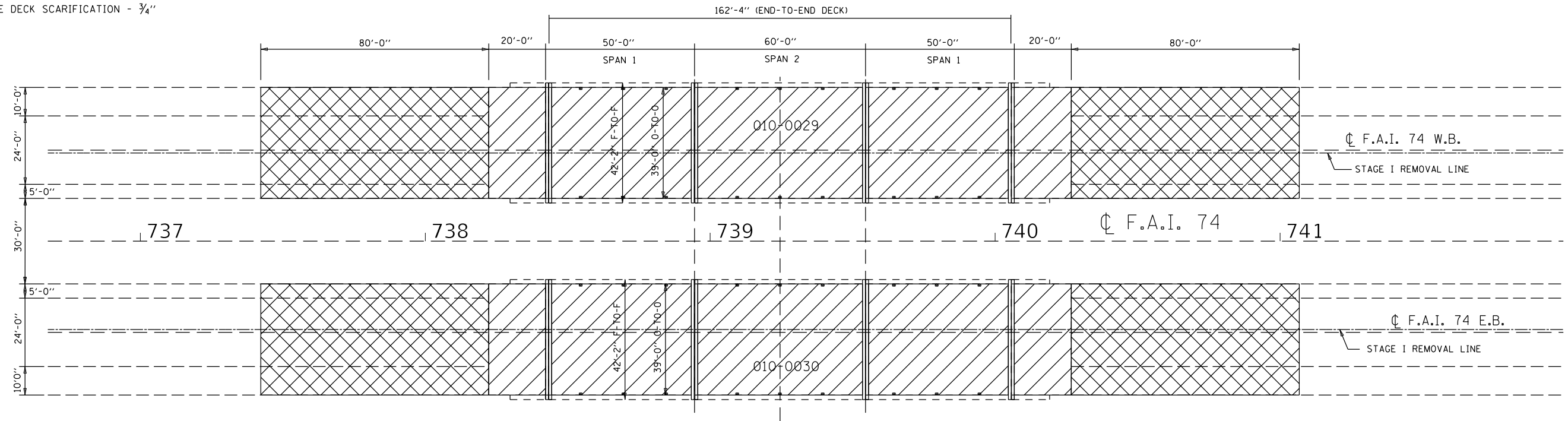
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N.(s) 010-0029 & 0030

SCALE: NONE SHEET 8 OF 8 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	50
			CONTRACT NO. 70E48	
ILLINOIS FED. AID PROJECT				

☒ HOT-MIX SURFACE REMOVAL - BUTT JOINT

▨ BRIDGE DECK SCARIFICATION - 3/4"



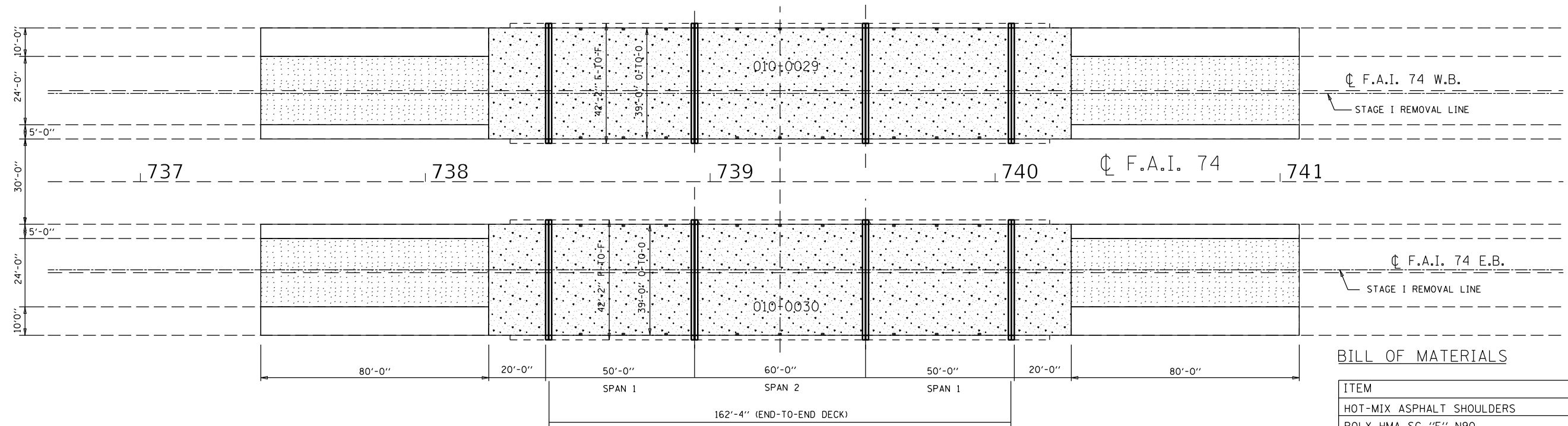
BILL OF MATERIALS

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION - 3/4"	SQ YD	1,698.0
HMA SURFACE REMOVAL - BUTT JOINT	SQ YD	1,388.0

☐ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90

☐ HOT-MIX ASPHALT SHOULDERS

☐ BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"



BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SHOULDERS	TON	45.0
POLY HMA SC "E" N90	TON	72.0
BRIDGE DECK LATEX CONC. OVLY 2 1/2"	SQ YD	1,698.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,598.0
DIAMOND GRINDING BRIDGE DECK	SQ YD	1,524.0

FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
pw:\1ldot-pw.bentley.com\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN Structures\MS8-sh1-StructurePlans		CHECKED -	REVISED - -
		DATE - 030518	REVISED - -

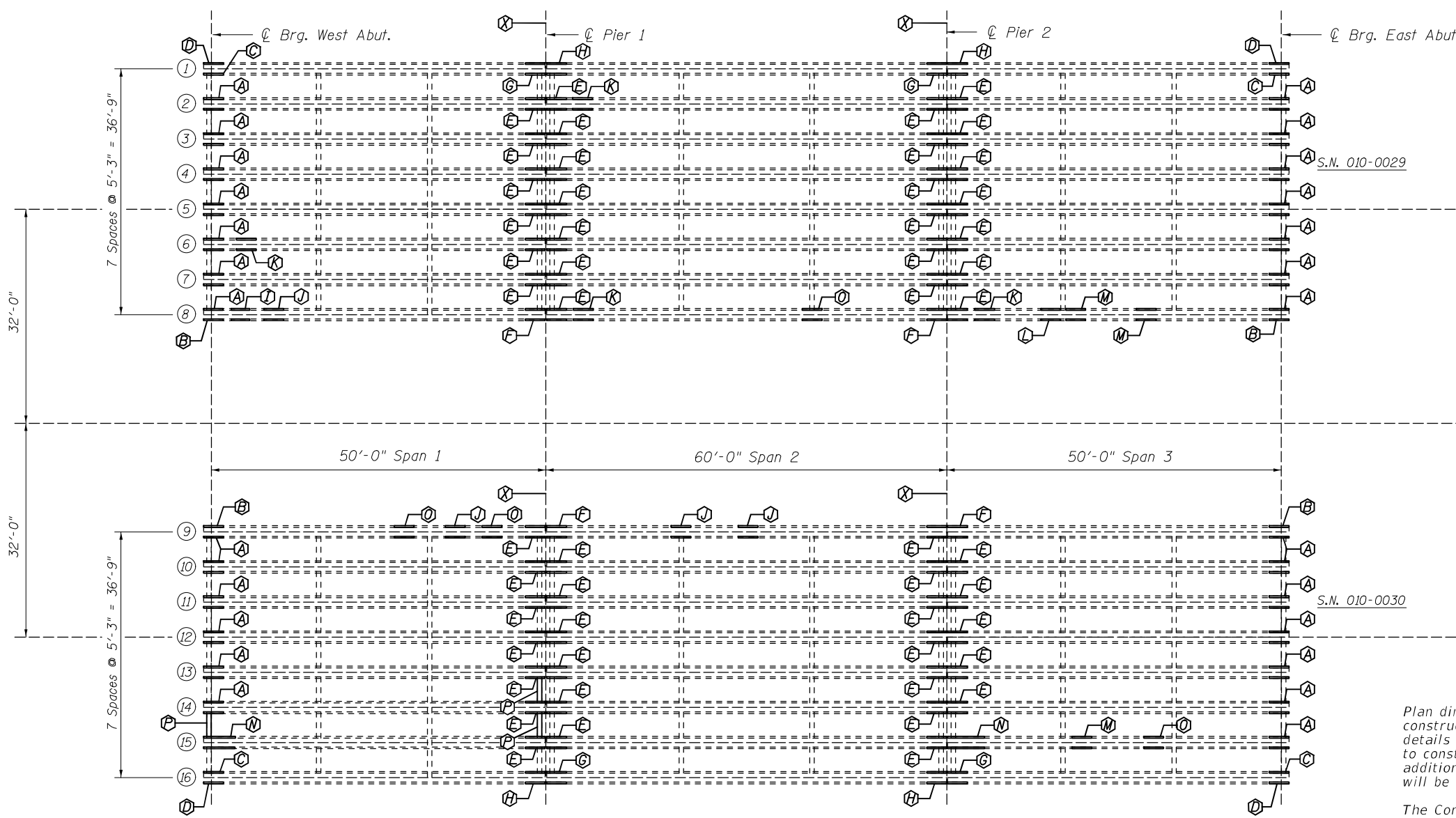
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAIL
S.N.(s) 010-0029 & 0030**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	51

CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT



FRAMING PLAN

- (A) - Location of PPC I-Beam Repair - Repair A
- (B) - Location of PPC I-Beam Repair - Repair B
- (C) - Location of PPC I-Beam Repair - Repair C
- (D) - Location of PPC I-Beam Repair - Repair D
- (E) - Location of PPC I-Beam Repair - Repair E
- (F) - Location of PPC I-Beam Repair - Repair F
- (G) - Location of PPC I-Beam Repair - Repair G
- (H) - Location of PPC I-Beam Repair - Repair H
- (I) - Location of PPC I-Beam Repair - Repair I
- (J) - Location of PPC I-Beam Repair - Repair J
- (K) - Location of PPC I-Beam Repair - Repair K
- (L) - Location of PPC I-Beam Repair - Repair L
- (M) - Location of PPC I-Beam Repair - Repair M
- (N) - Location of PPC I-Beam Repair - Repair N
- (O) - Location of PPC I-Beam Repair - Repair O
- (P) - Location of Diaphragm Repair at Abutments & Piers - Repair P
- (X) - Bearing Removal & Replacement (Beams 1-16)

NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

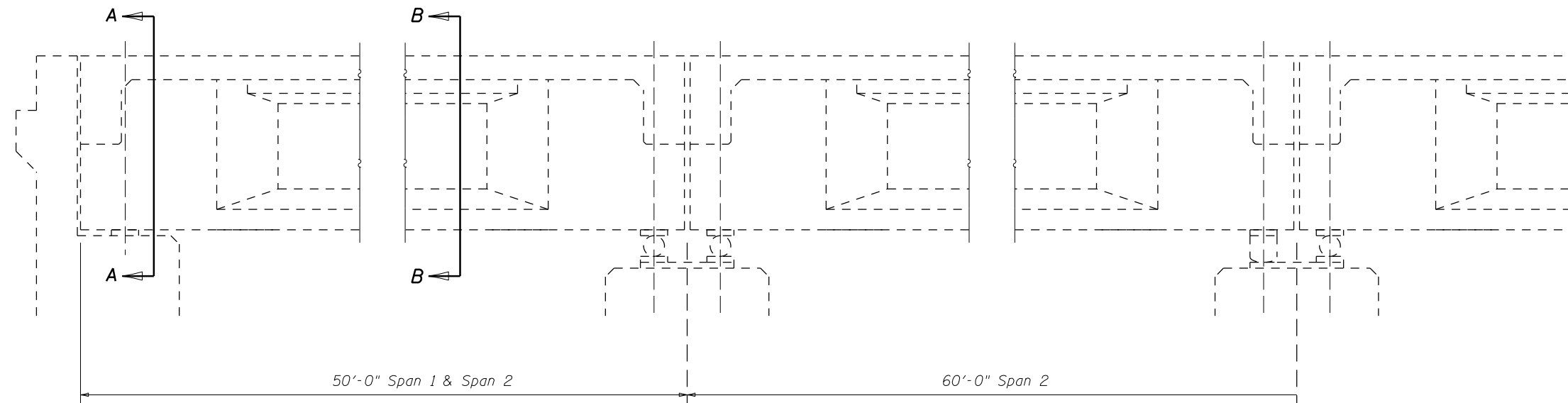
The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provision for "FRP Strengthening for PPC I-Beam Repairs".
See Special Provision for "Precast Prestressed I-Beam Repairs".

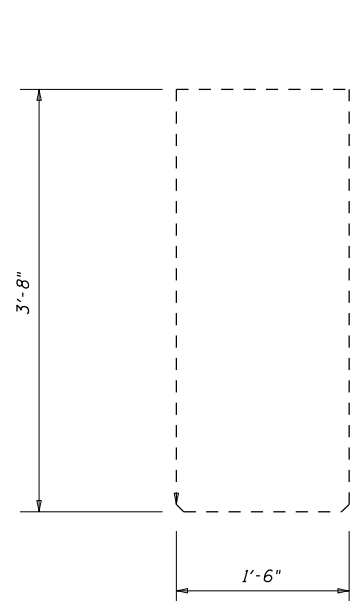
Acrylic Coating shall be placed over the Fiber Wrap repairs. Two Coats shall be applied.

BILL OF MATERIAL

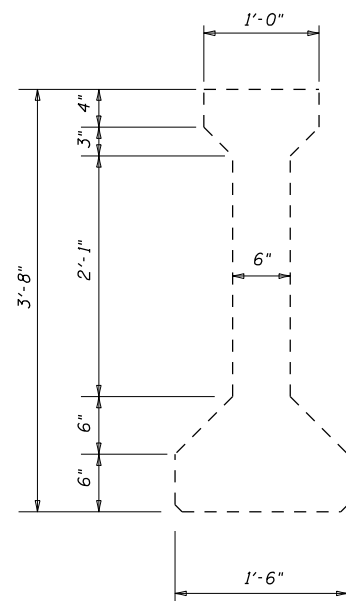
Item	Unit	Total
Concrete Removal	Cu. Yd.	0.4
Concrete Superstructure	Cu. Yd.	0.4
Acrylic Coating	Sq. Yd.	204.0
Fiber Wrap	Sq. Ft.	1,836.0
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	454.0



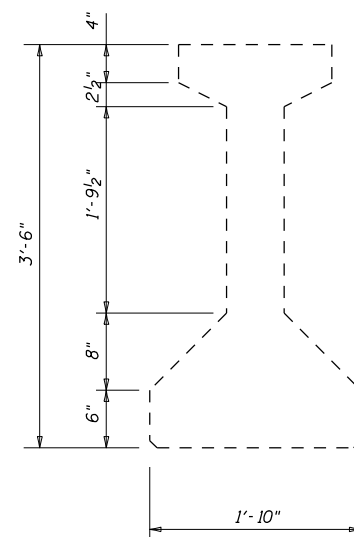
TYPICAL PART LONGITUDINAL SECTION



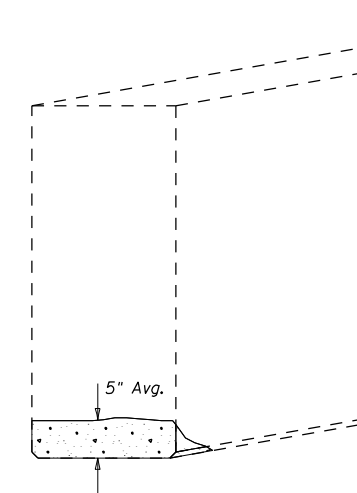
SECTION A-A
1959 Beams



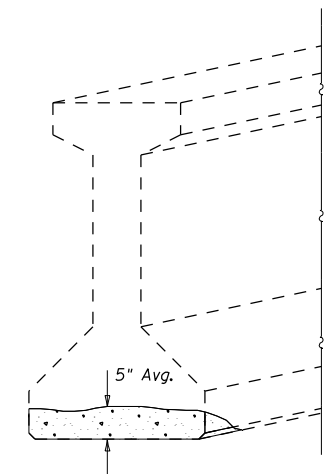
SECTION A-A
1959 Beams



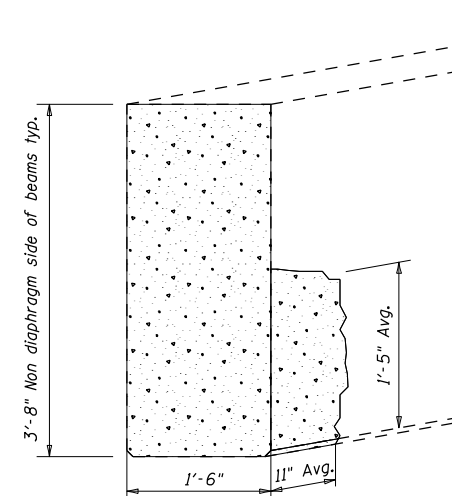
CROSS-SECTION
Outside Beams 1993 Construction



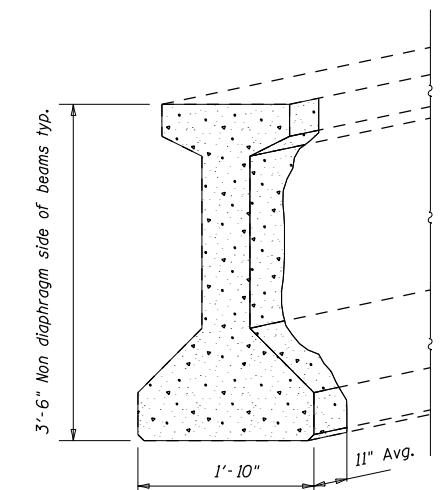
TYPICAL DAMAGE AT BEAM ENDS
1959 Beams at Abutments



TYPICAL DAMAGE AT BEAM ENDS
1993 Beams at Abutments



TYPICAL DAMAGE AT BEAM ENDS
1959 Beams over Piers



TYPICAL DAMAGE AT BEAM ENDS
1993 Beams over Piers

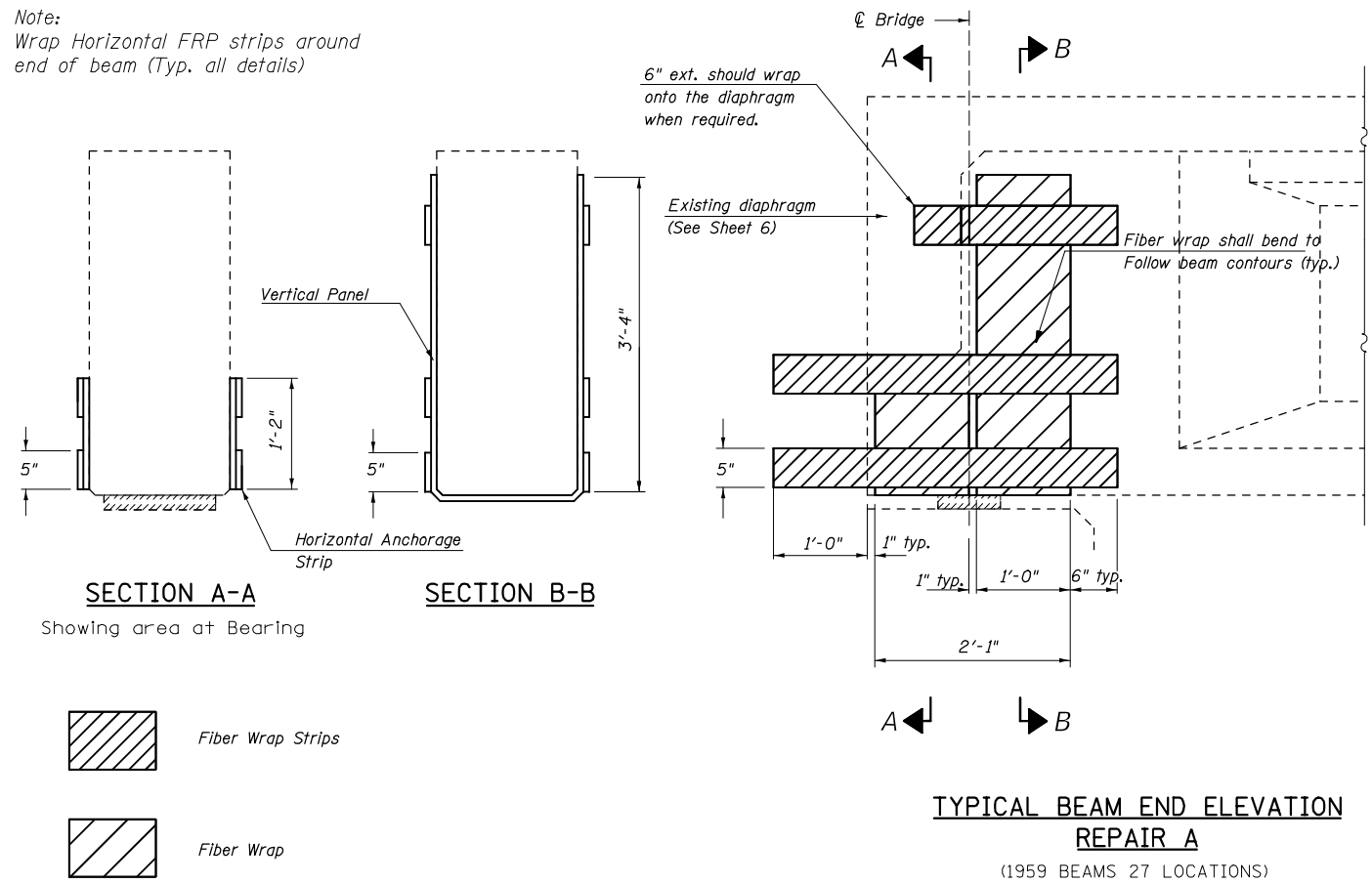
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

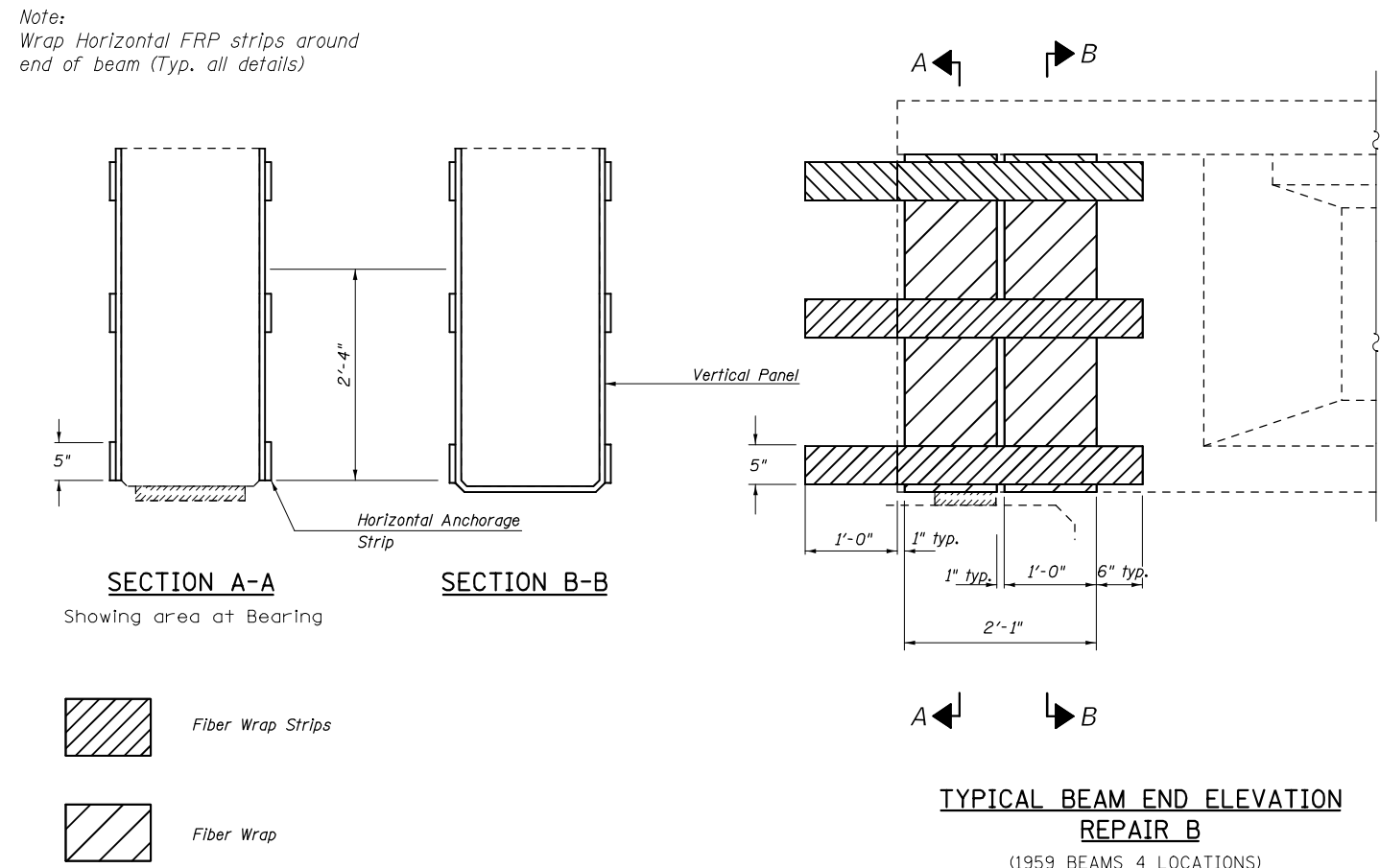
FRP REPAIR		
S.N.(s) 010-0029 & 0030		
SCALE: NONE	SHEET NO. 2 OF 9 SHEETS	STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	53
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				

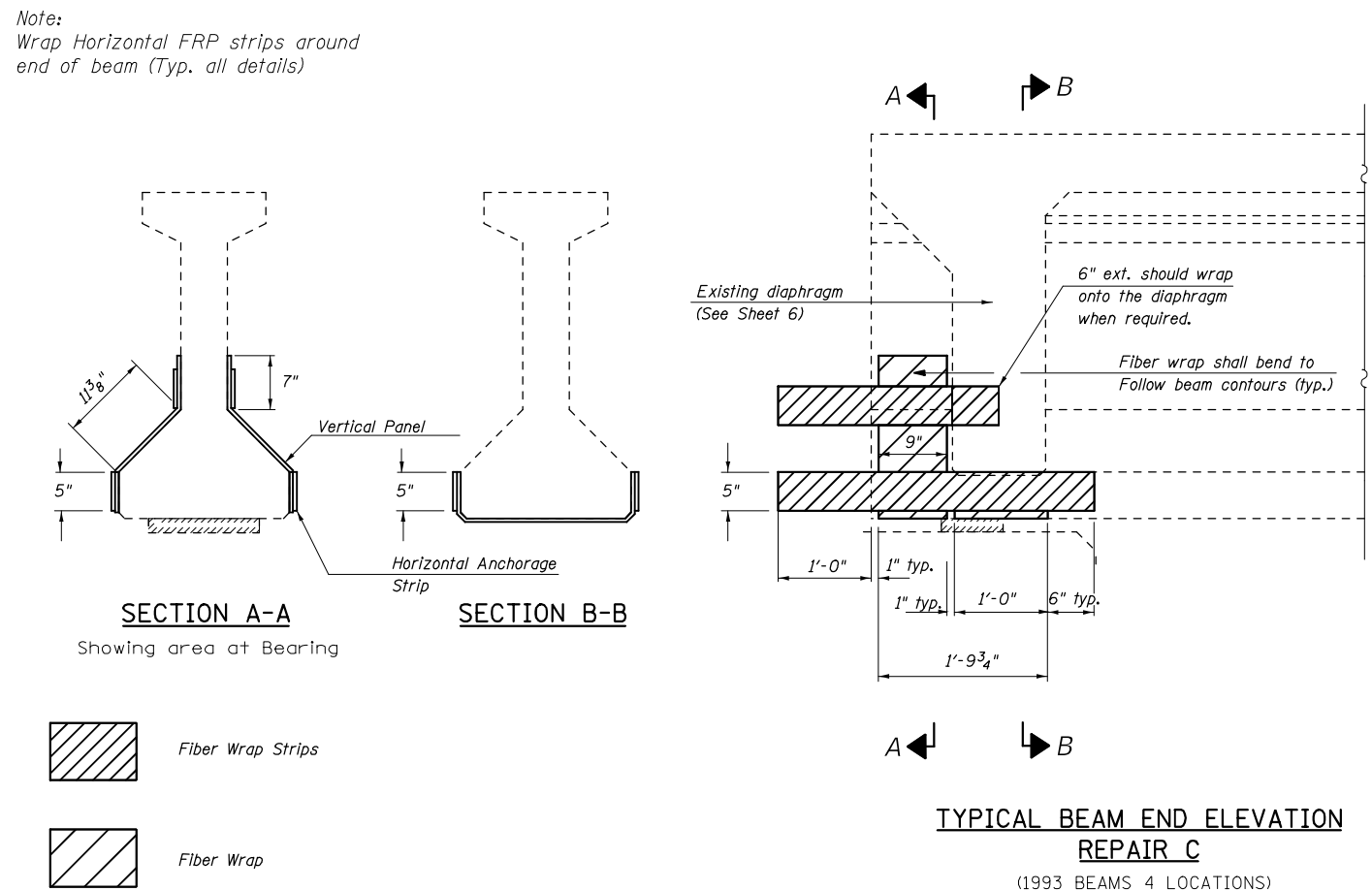
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



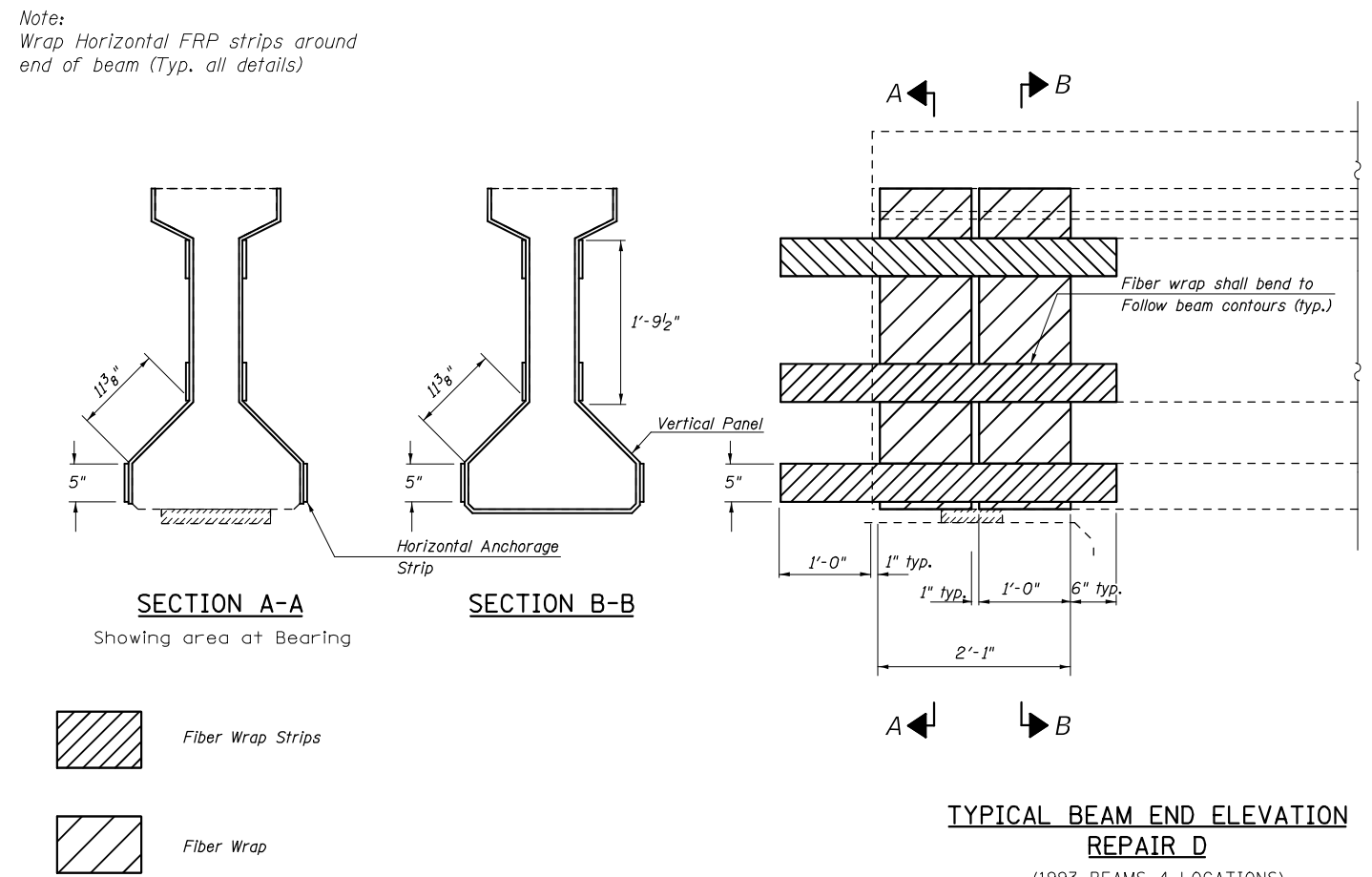
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



FILE NAME =	USER NAME = #USER#	DESIGNED - JMS	REVISED - -
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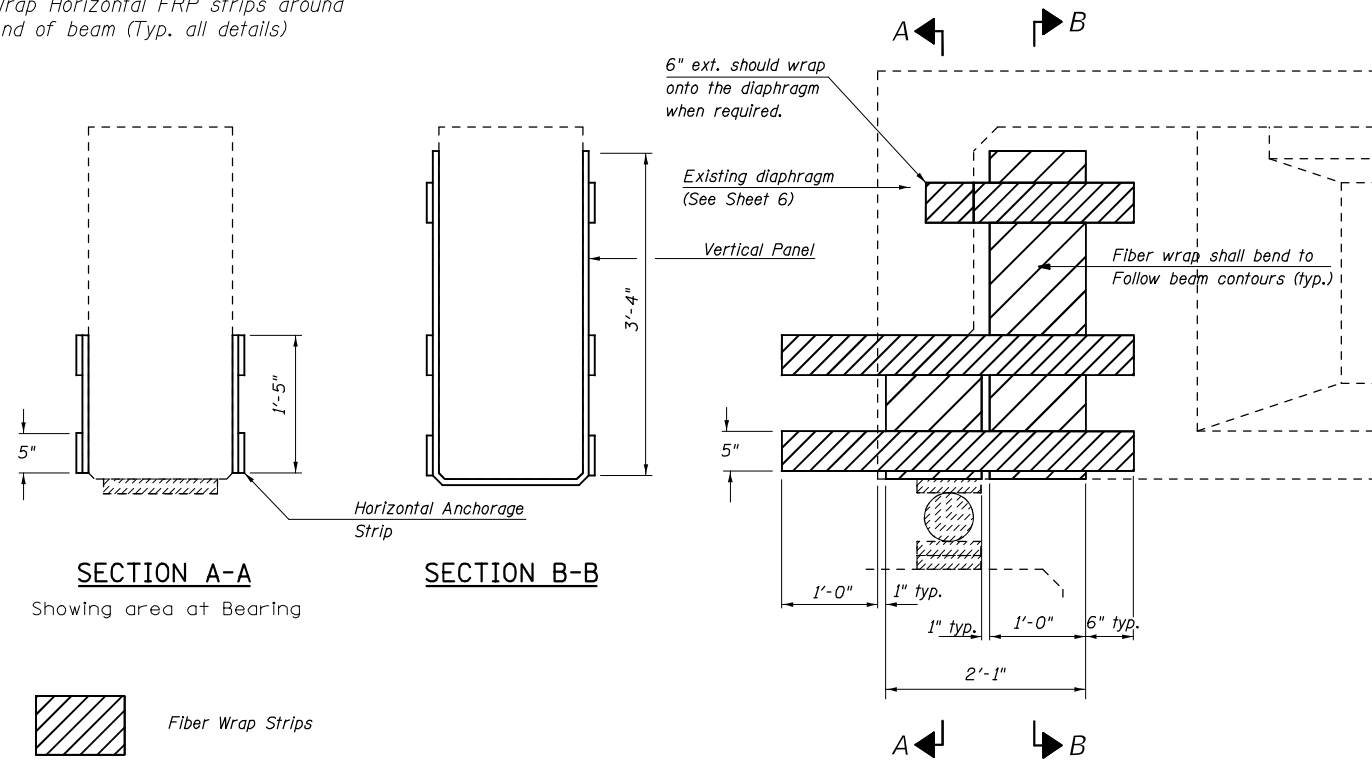
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRP REPAIR
S.N.(s) 010-0029 & 0030

SCALE: NONE SHEET NO. 3 OF 9 SHEETS STA. _____ TO STA. _____

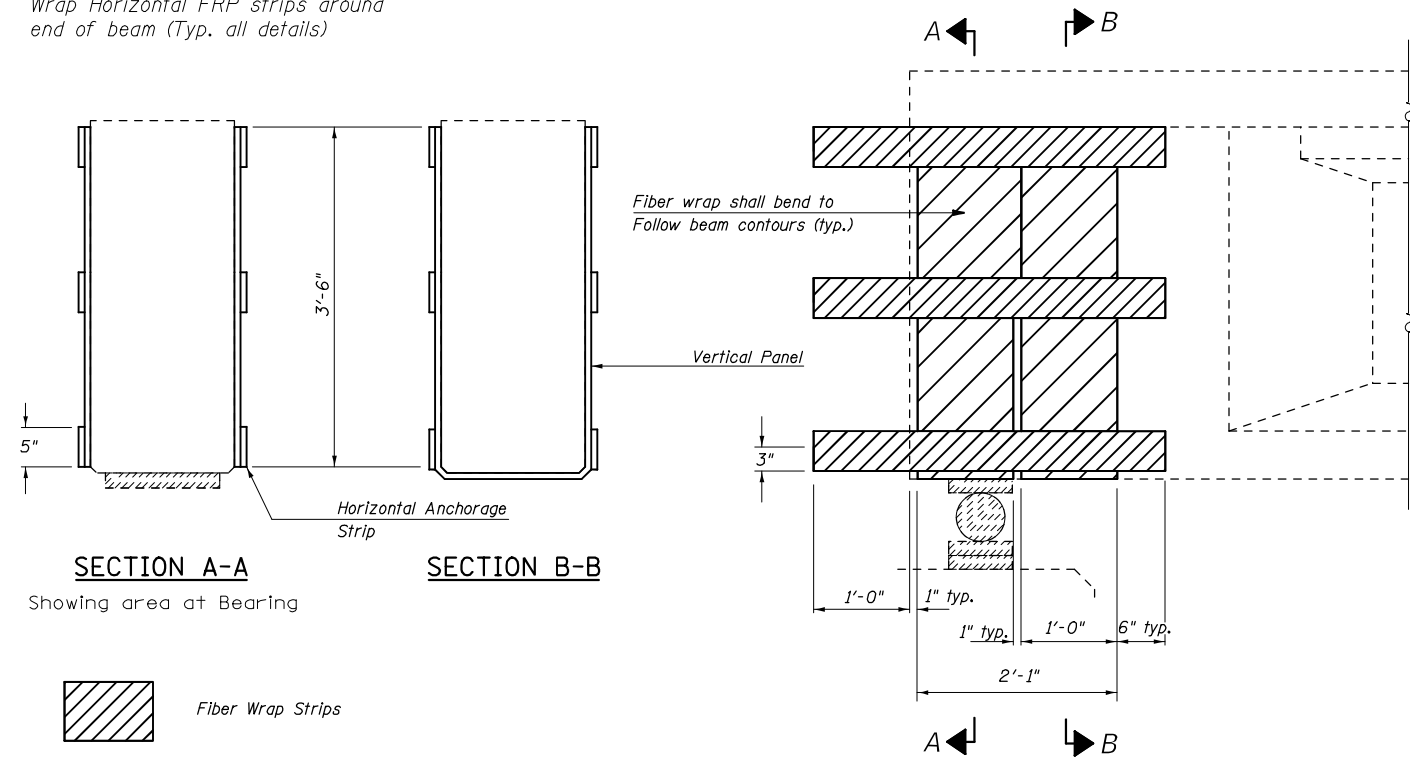
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74	(10-7,10-7B-1)BR	CHAMPAIGN	79	54
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



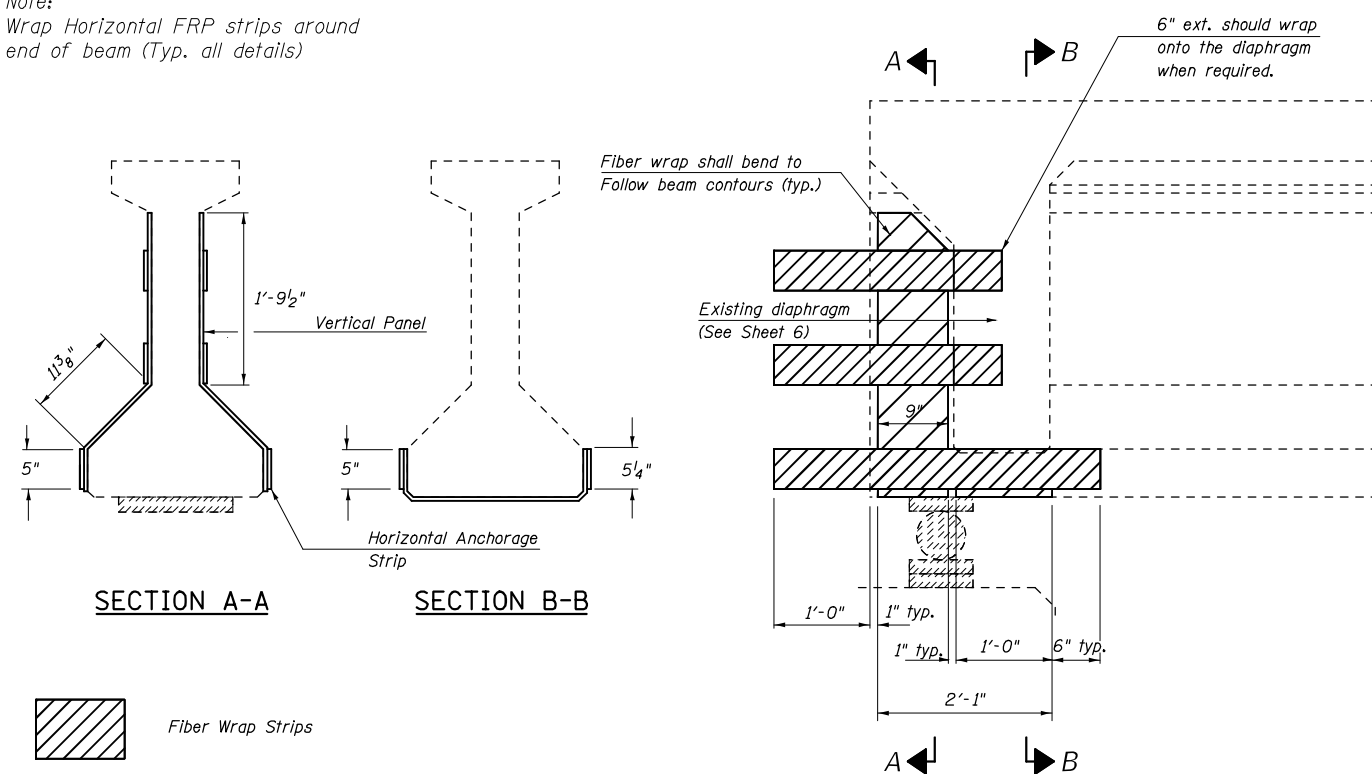
**TYPICAL BEAM END ELEVATION
REPAIR E**
(1959 BEAMS 55 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



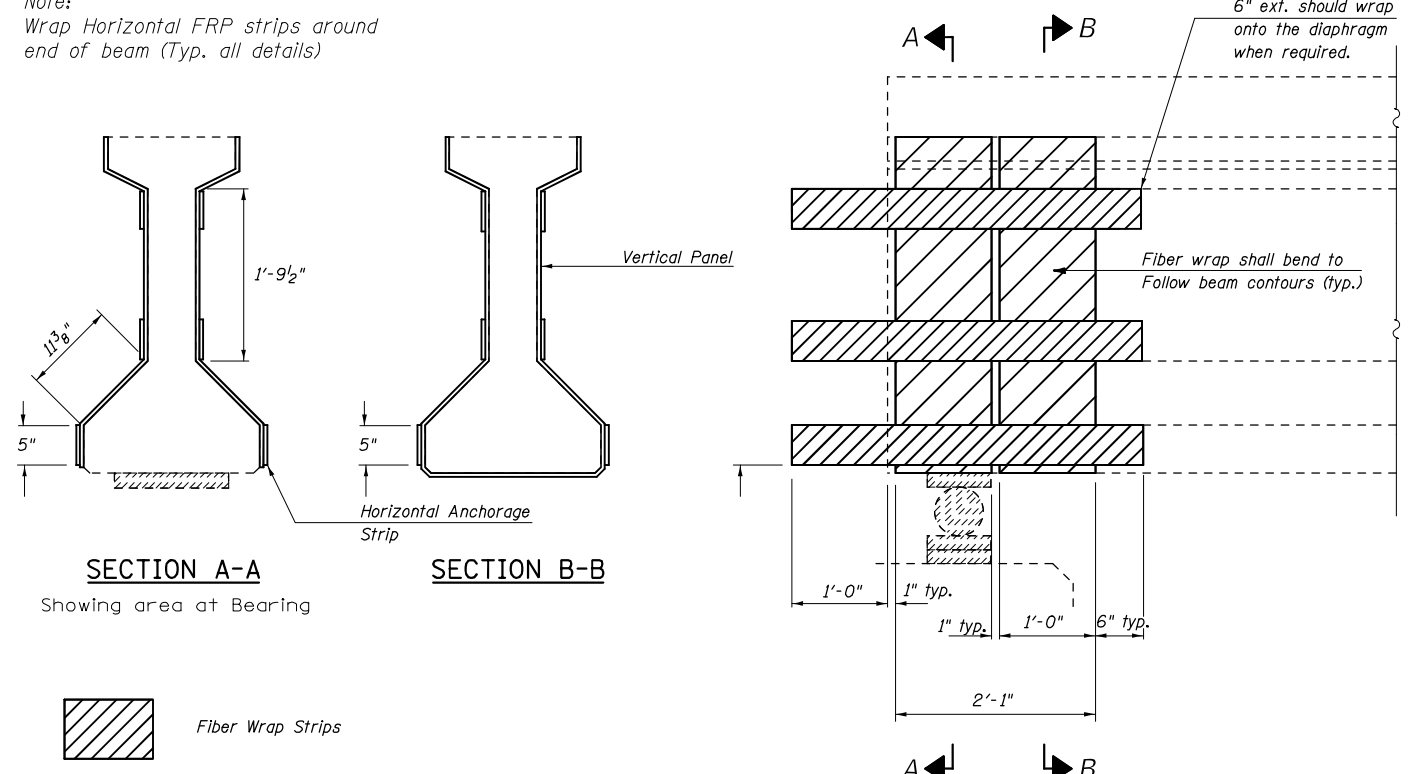
**TYPICAL BEAM END ELEVATION
REPAIR F**
(1959 BEAMS 8 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM END ELEVATION
REPAIR G**
(1993 BEAMS 8 LOCATIONS)

Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM END ELEVATION
REPAIR H**
(1993 BEAMS 8 LOCATIONS)

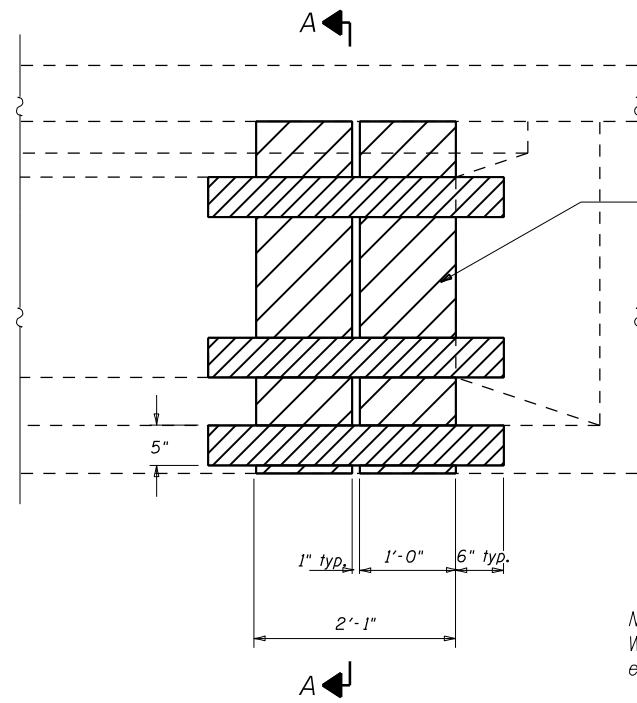
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRP REPAIR
S.N.(s) 010-0029 & 0030**

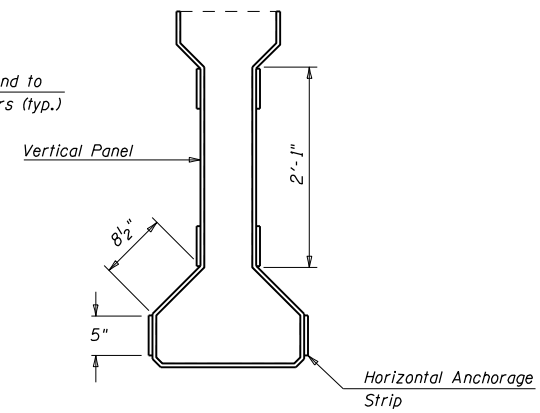
SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	55
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



**TYPICAL BEAM END ELEVATION
REPAIR I**
(1959 BEAMS 1 LOCATIONS)

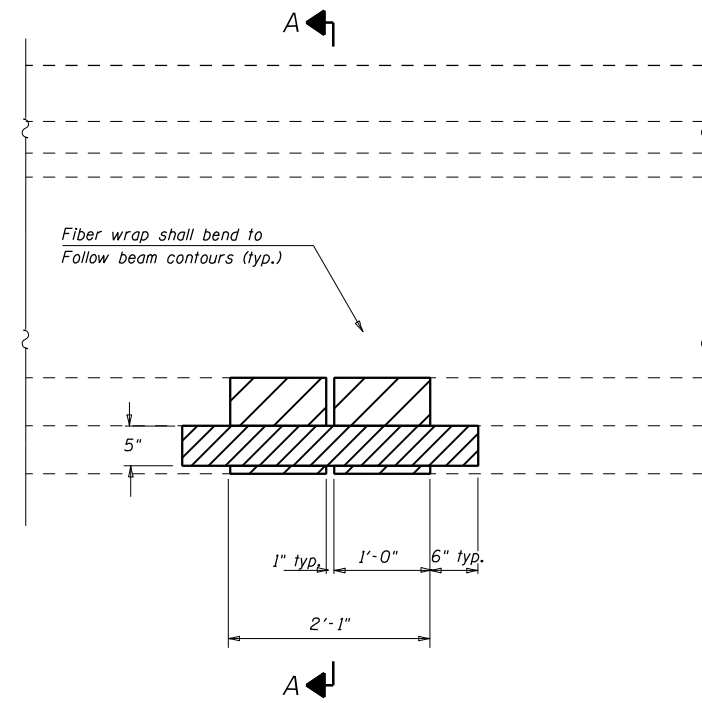
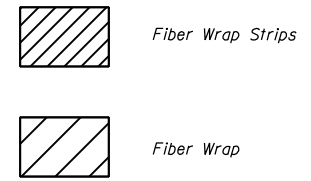
Fiber wrap shall bend to follow beam contours (typ.)



SECTION A-A

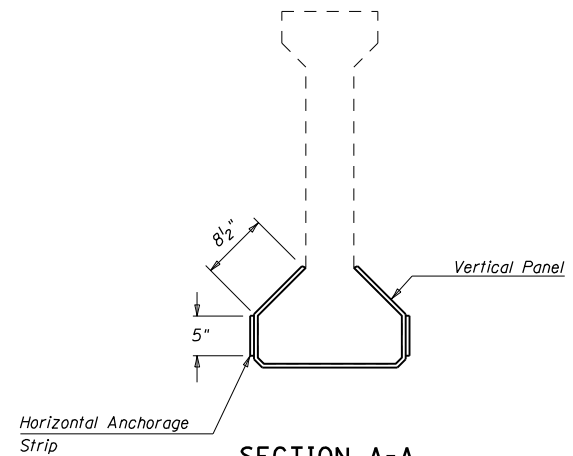
Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)

Location of Fiber Wrap may be adjusted in relation to Repairs A & E by Engineer in Field.

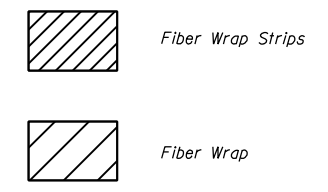


**TYPICAL BEAM ELEVATION
REPAIR J**
(1959 BEAMS 4 LOCATIONS)

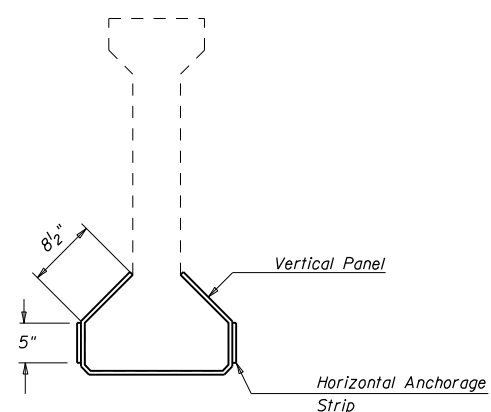
Fiber wrap shall bend to follow beam contours (typ.)



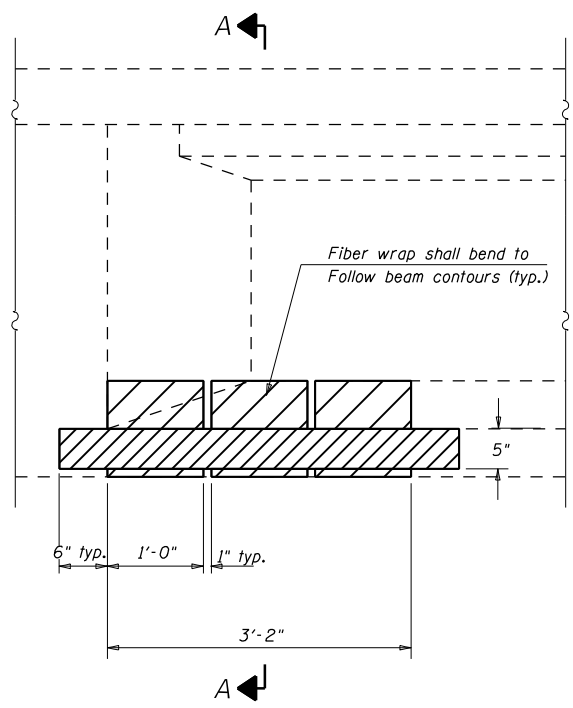
SECTION A-A



Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)

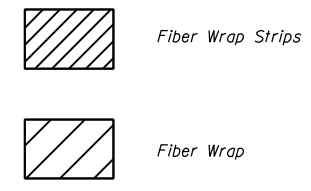


SECTION A-A

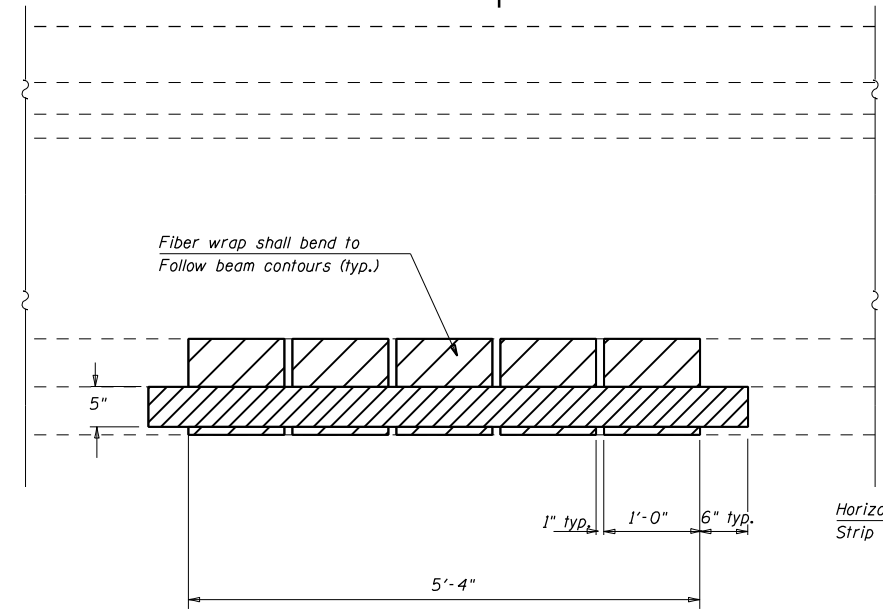


**TYPICAL BEAM END ELEVATION
REPAIR K**
(1959 BEAMS 4 LOCATIONS)

Fiber wrap shall bend to follow beam contours (typ.)

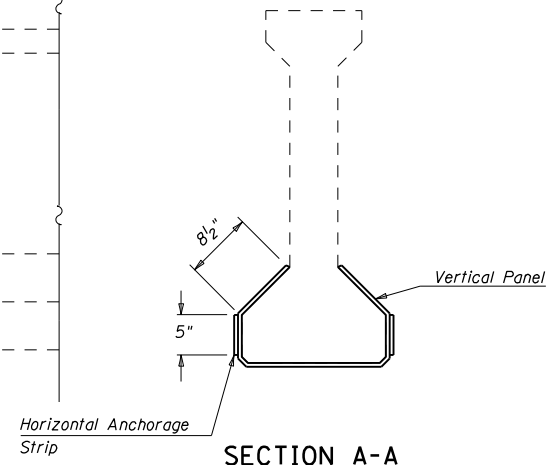


Note:
Wrap Horizontal FRP strips around end of beam (Typ. all details)

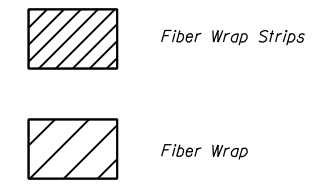


**TYPICAL BEAM ELEVATION
REPAIR L**
(1959 BEAMS 1 LOCATIONS)

Fiber wrap shall bend to follow beam contours (typ.)



SECTION A-A



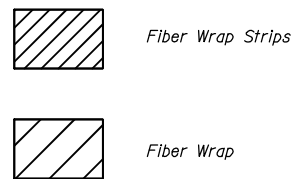
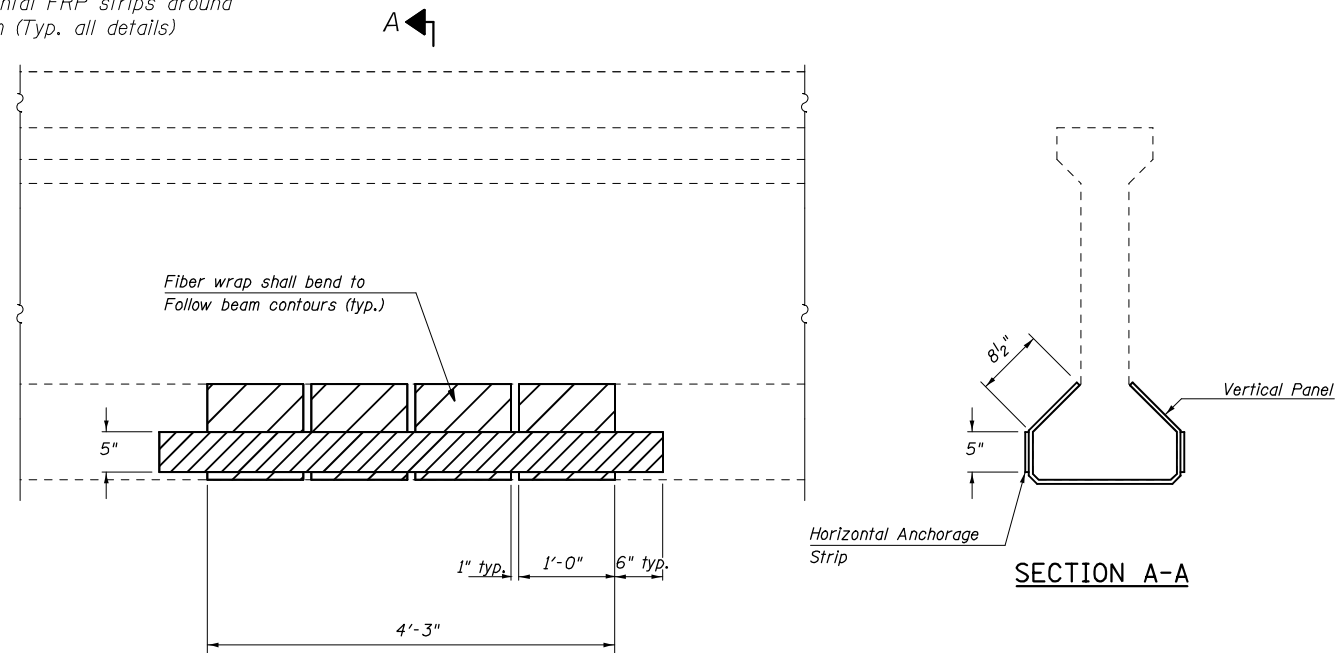
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px:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\JMS\8-sh1-StructurePlans			REVISED - -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

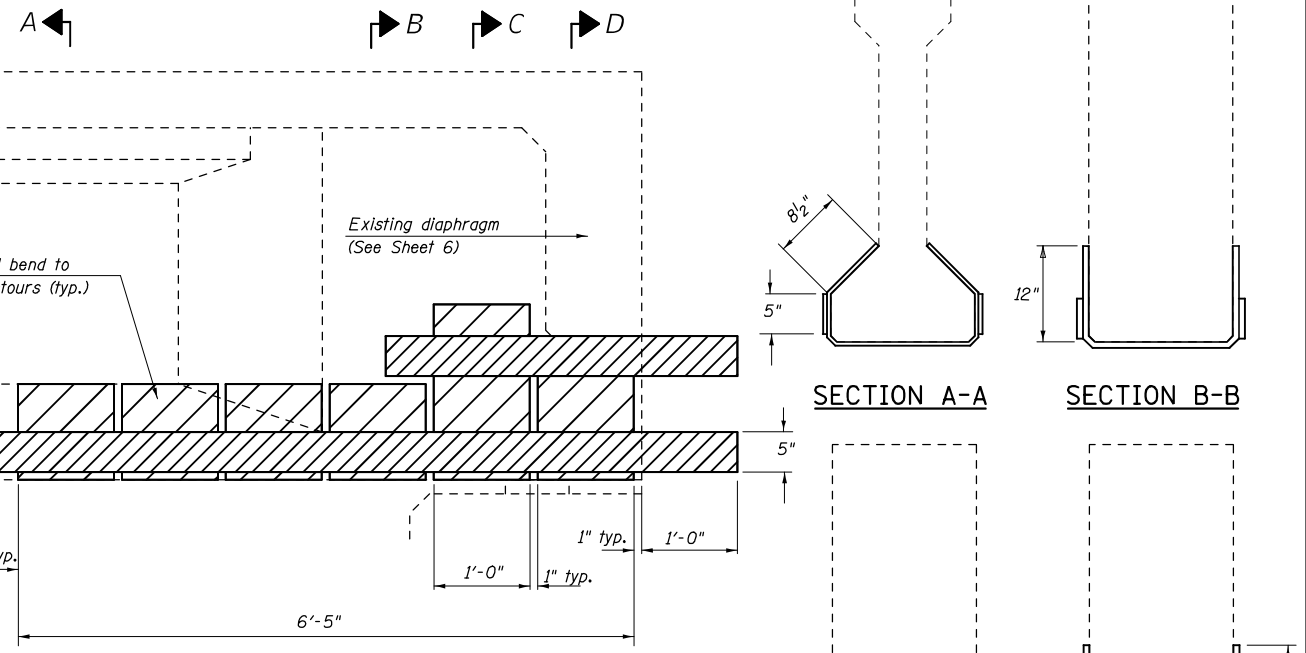
FRP REPAIR
S.N.(s) 010-0029 & 0030
SCALE: NONE SHEET NO. 5 OF 9 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	56
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				

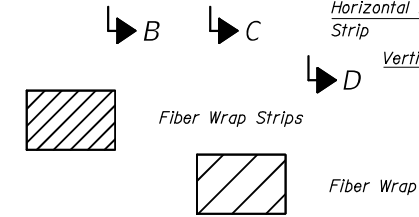
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM ELEVATION
REPAIR M**
(1959 BEAMS 3 LOCATIONS)

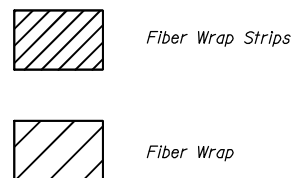
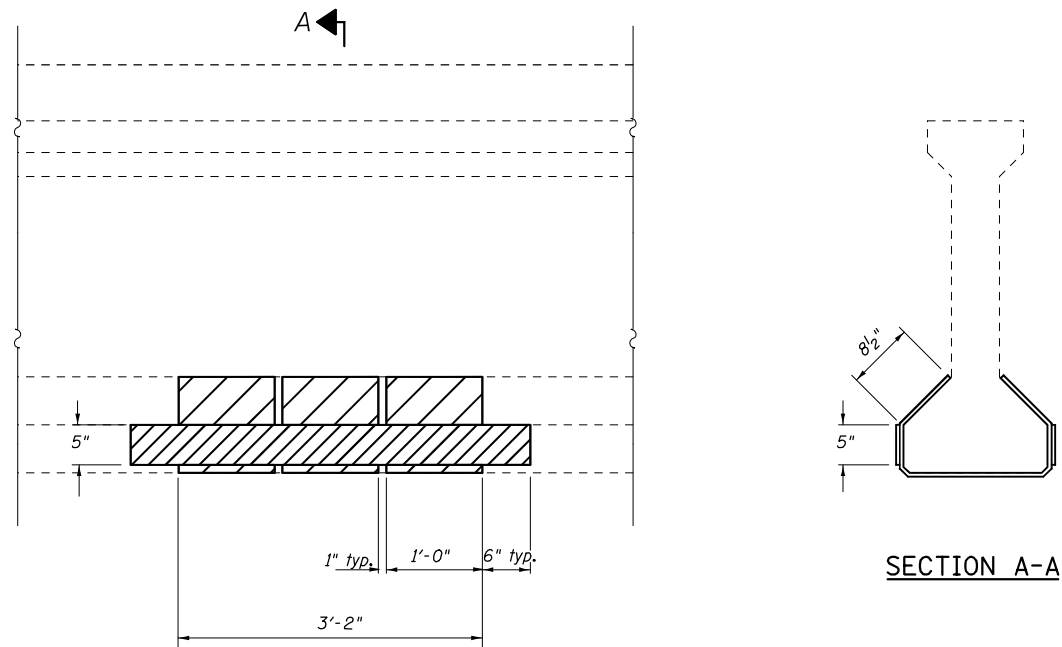


Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)

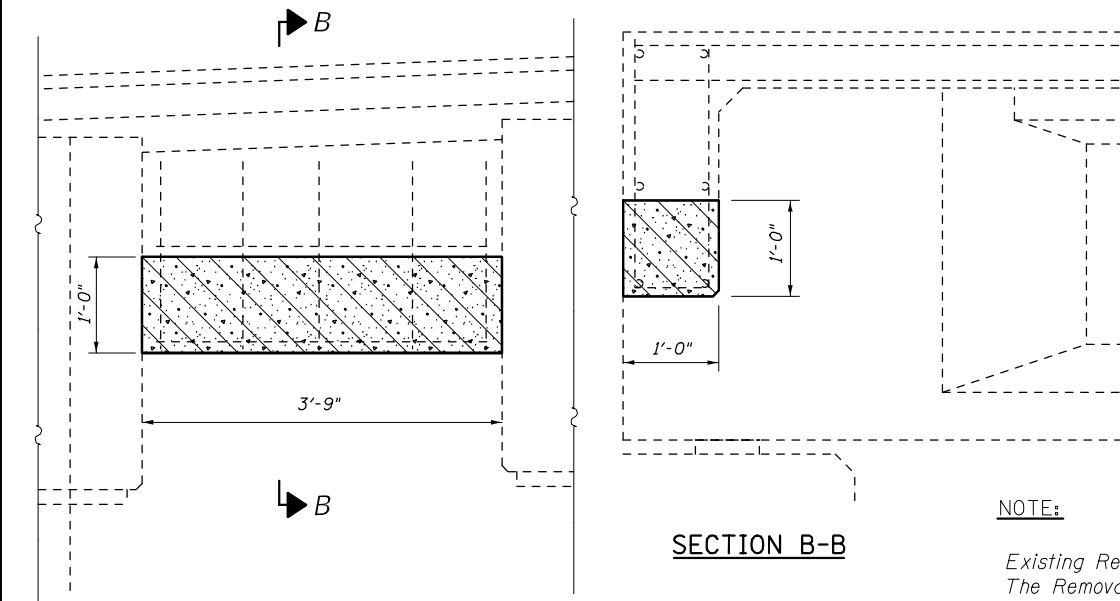


**TYPICAL BEAM END ELEVATION
REPAIR N**
(1959 BEAMS 2 LOCATIONS)

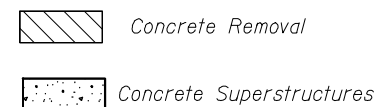
Note:
Wrap Horizontal FRP strips around
end of beam (Typ. all details)



**TYPICAL BEAM ELEVATION
REPAIR O**
(1959 BEAMS 4 LOCATIONS)



REPAIR P AT EXISTING DIAPHRAGMS
(1959 Diaphragms 3 - Location)



**TYPICAL CROSS-SECTION ELEVATION
AT ABUTMENTS AND PIERS**

NOTE:

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Diaphragms to Remain in Place.

The Contractor shall use Extreme Care during concrete removal so as not to damage the PPC I-Beam.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - JMS	REVISED - -
		DRAWN - JMS	REVISED - -
		CHECKED -	REVISED - -
		DATE - 030518	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRP REPAIR		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N.(s) 010-0029 & 0030		74	(10-7,10-7B-1)BR	CHAMPAIGN	79	57
SCALE: NONE		SHEET NO. 6 OF 9 SHEETS		CONTRACT NO. 70E48		
		STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT		

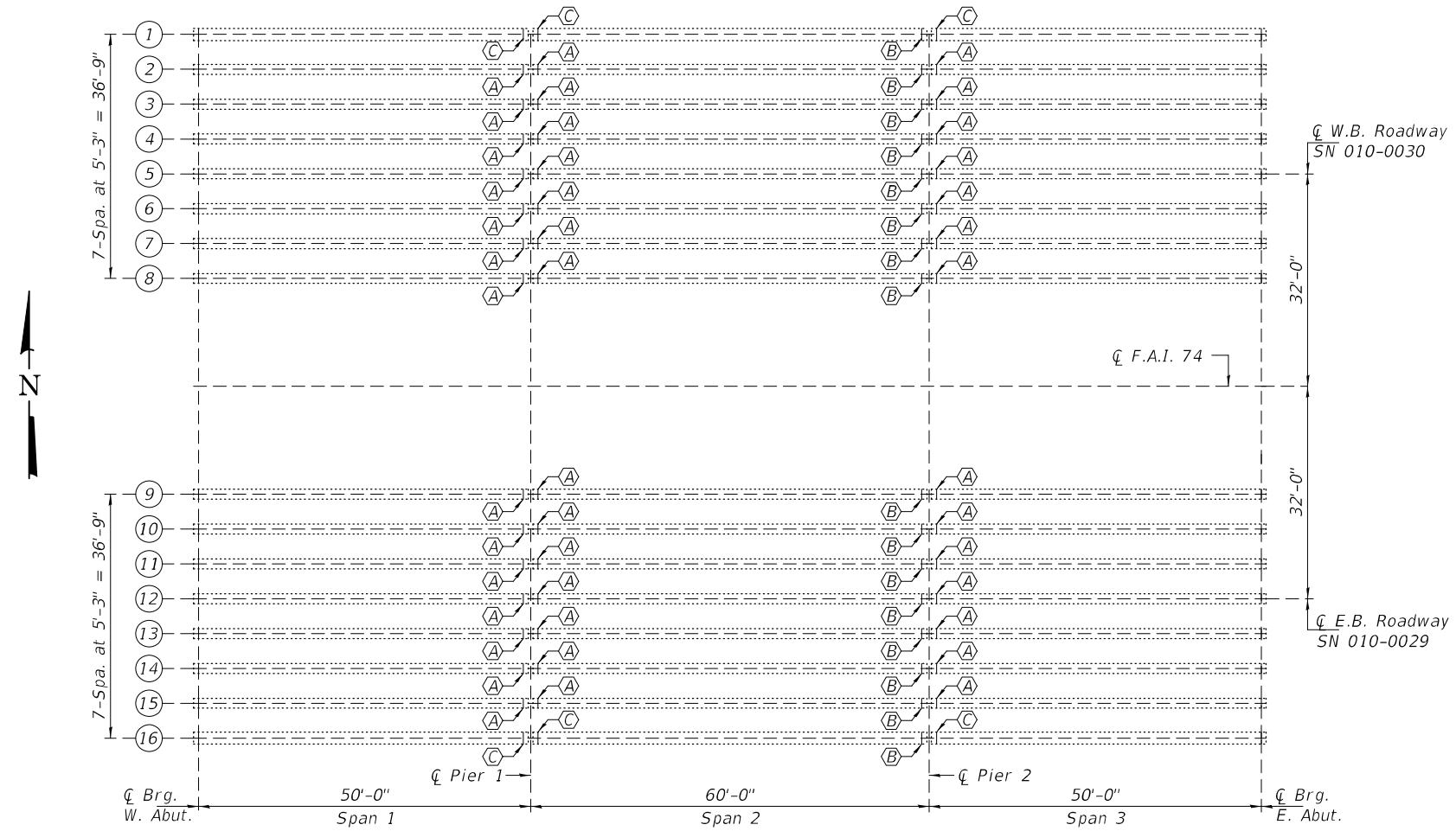
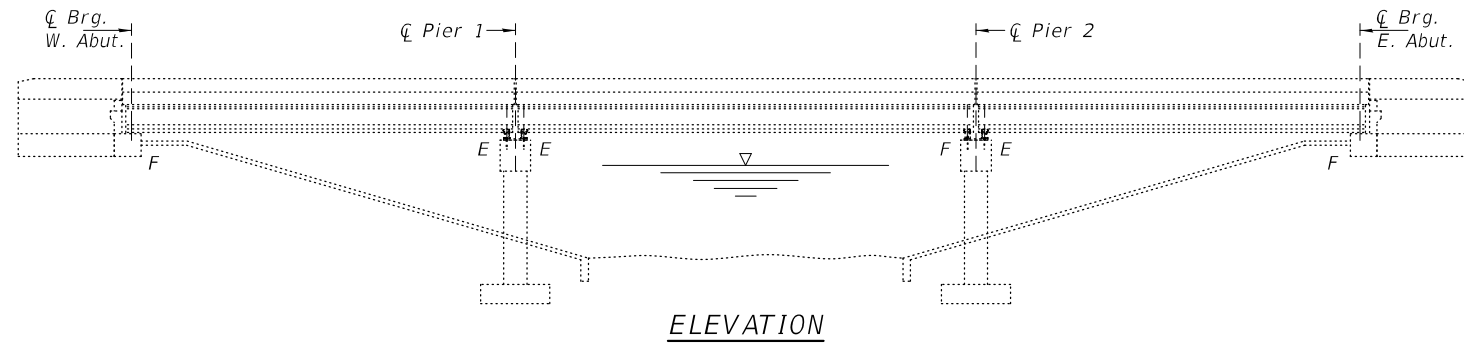
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

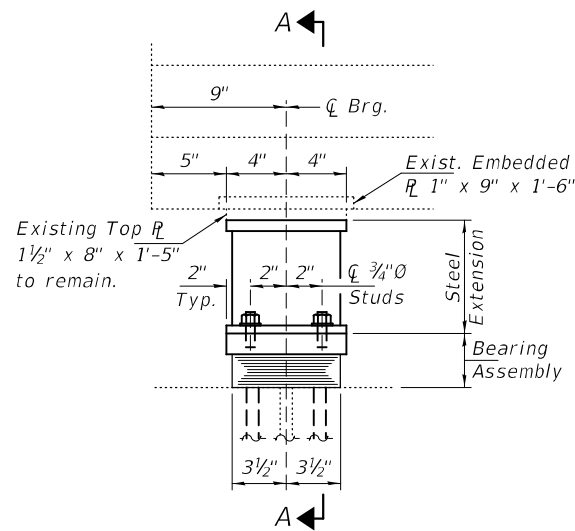
All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".



- (A) - Remove existing Roller Bearings and install New Elastomeric Expansion Bearings (Type I).
- (B) - Remove & Replace Existing Fixed Bearings
- (C) - Remove & Replace Existing Elastomeric Expansion Bearings (Type I).

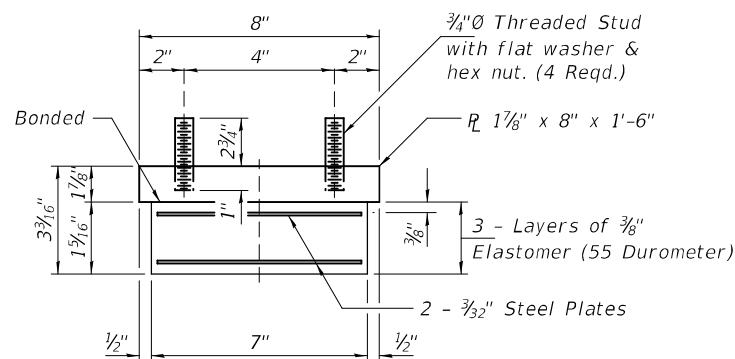
Expires: November 30, 2022

DESIGNED - Jeffrey S. Burke	EXAMINED - <i>Timothy A. [Signature]</i>	DATE - DECEMBER 9, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FRAMING PLAN AND ELEVATION F.A.I. 74 OVER SALT FORK RIVER SN 010-0029 (E.B.) & -0030 (W.B.)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Adrian T. Halloway	PASSED - <i>Carl [Signature]</i>	REVISIONS -					74	(10-7,10-7B-1)BR	CHAMPAIGN	79	58
DRAWN - STEFFEN	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -			SHEET NO. 7 OF 9 SHEETS		CONTRACT NO. 70E48				
CHECKED - JSB ATH	ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT				



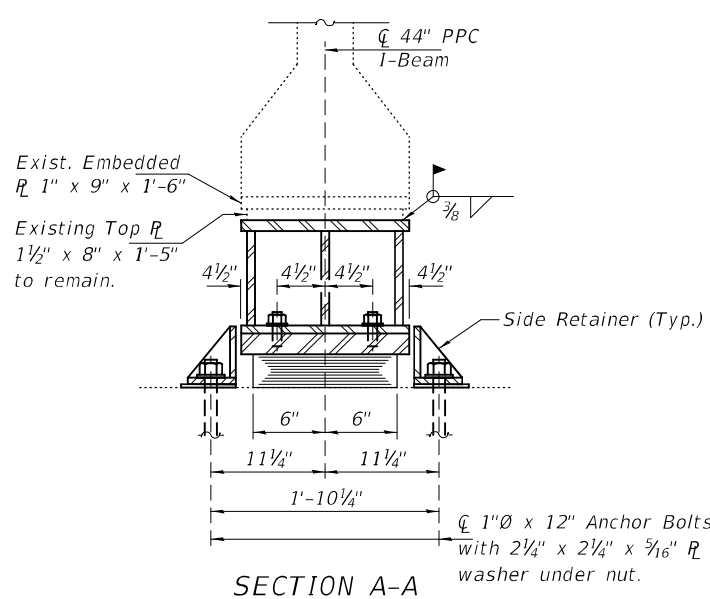
ELEVATION AT PIER

TYPE I ELASTOMERIC EXP. BRG.
(Typ. Pier 1 & East Brgs. Pier 2)
(Beams 2 - 15)



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

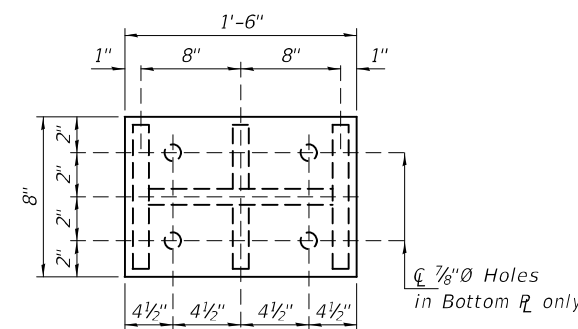


SECTION A-A

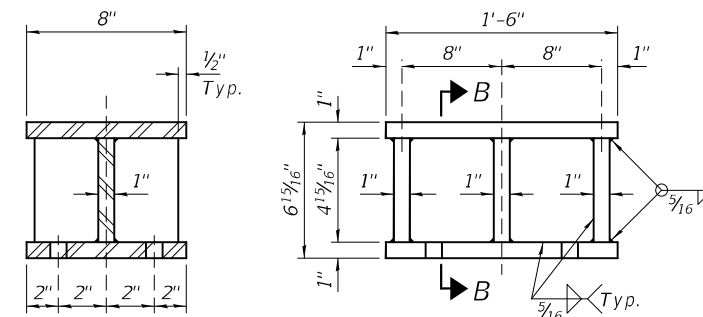
BEAM REACTIONS

R ϕ	(K)	37.0
R \downarrow	(K)	29.0
Imp.	(K)	8.0
R (Total)	(K)	73.8

Notes:
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
Min. jack capacity = 45 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

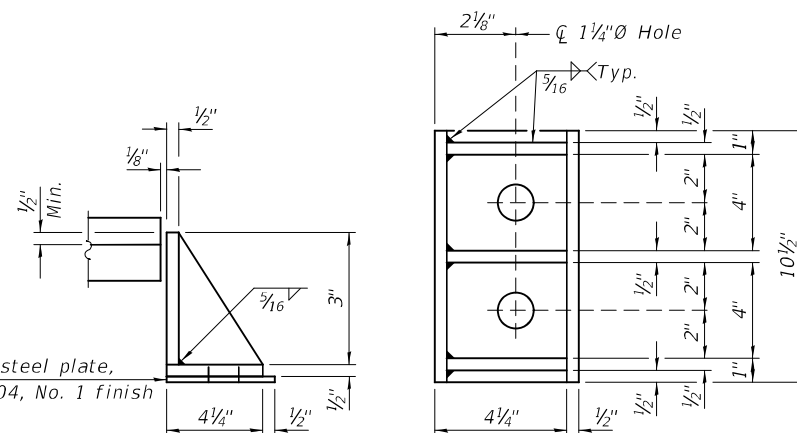


PLAN TOP AND BOTTOM PLATE



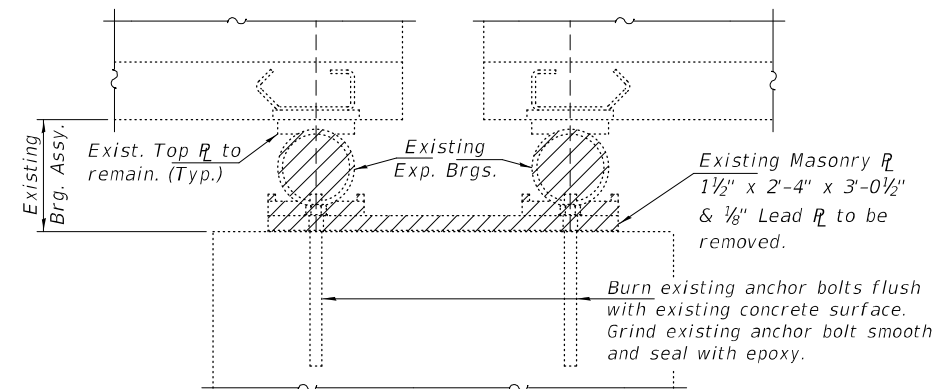
SECTION B-B

STEEL EXTENSION DETAIL



SIDE RETAINER

(84-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



EXISTING BEARING REMOVAL
DETAIL AT PIER 1

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	42
Jack and Remove Existing Bearings	Each	36
Furnishing and Erecting Structural Steel	Pound	5720
Anchor Bolts, 1" ϕ	Each	168
Removal of Existing Bearings	Each	6

* Cost of jacking at these locations will be paid with Temporary Shoring and Cribbing. See sheets 64, 67, 68 and 70 of 79 for locations.

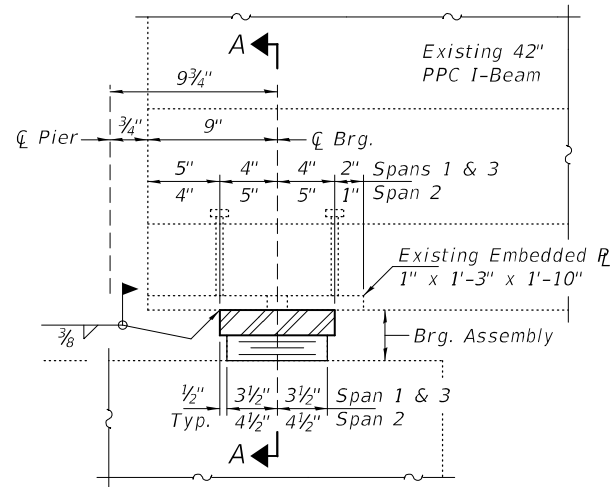
DESIGNED - JSB	EXAMINED - Timothy A. [Signature]	DATE - DECEMBER 9, 2021
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - [Signature]	REVISED -
CHECKED - JSB ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

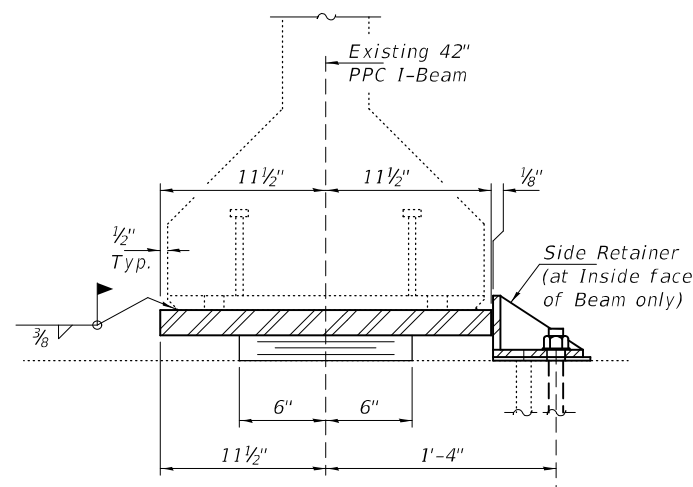
ELASTOMERIC EXPANSION BEARING DETAILS
BEAMS 2 THRU 15 AT PIER 1 & PIER 2 (EAST)
SN 010-0029 (E.B.) & -0030 (W.B.)

SHEET NO. 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	59
ILLINOIS			FED. AID PROJECT	



ELEVATION AT PIER



SECTION A-A

BEAM REACTIONS

R _∅	(K)	37.0
R _L	(K)	29.0
Imp.	(K)	8.0
R (Total)	(K)	73.8

Notes:

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 45 Tons.

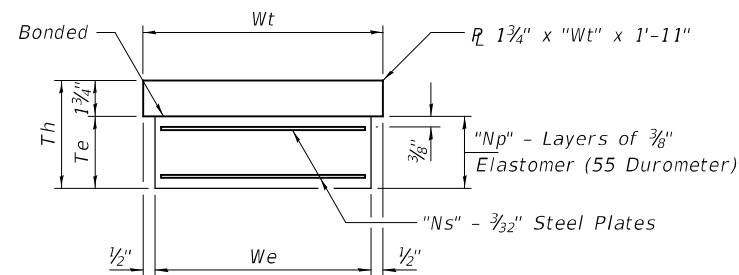
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

TYPE I ELASTOMERIC EXP. BRG.

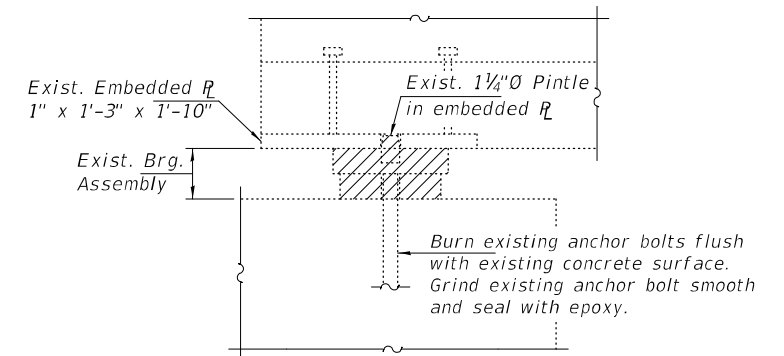
(Typ. Pier 1 & East Brgs. Pier 2)
(Beams 1 & 16)



BEARING ASSEMBLY

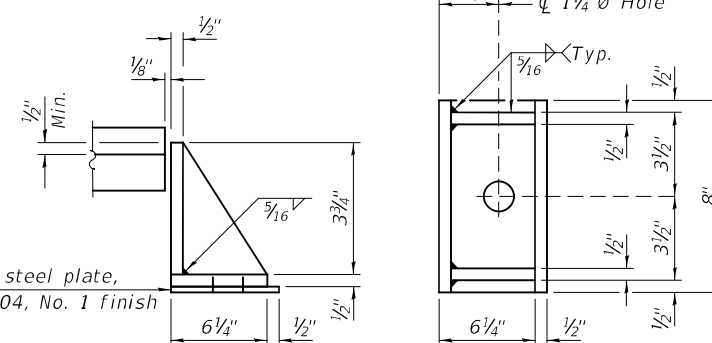
Span	We	Wt	Te	Th	Np	Ns
1 & 3	7"	8"	1 3/4"	3 1/2"	4	3
2	9"	10"	2 1/4"	4"	5	4

Note:
Shim plates shall not be placed under Bearing Assembly.



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

(6-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Anchor Bolts, 1"∅	Each	12

DESIGNED - JSB
CHECKED - ATH
DRAWN - STEFFEN
CHECKED - JSB ATH

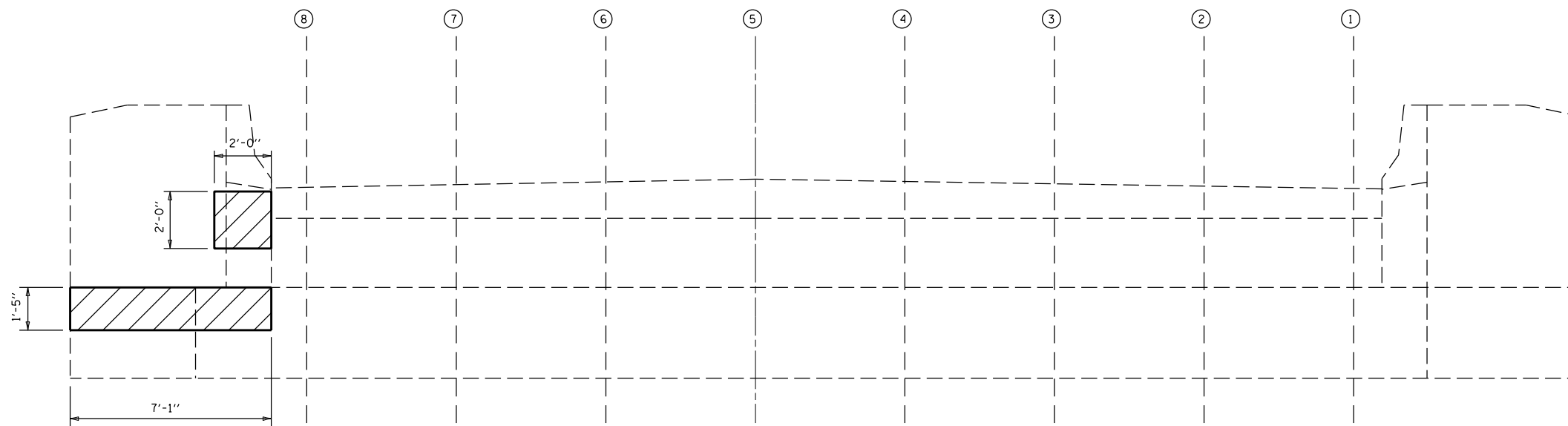
EXAMINED
PASSED
Timothy A. [Signature]
ENGINEER OF STRUCTURAL SERVICES
[Signature]
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 9, 2021
REVISED -
REVISED -

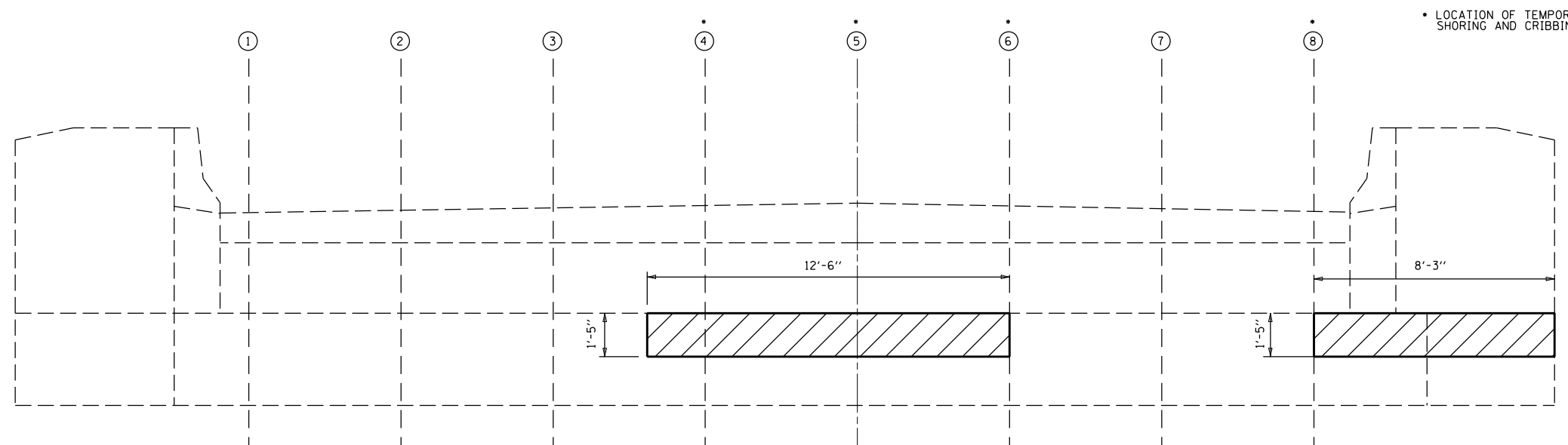
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC EXPANSION BEARING DETAILS
BEAMS 1 & 16 AT PIER 1 & PIER 2 (EAST)
SN 010-0029 (E.B.) & -0030 (W.B.)

F.A.I. RTE. 74
SECTION (10-7,10-7B-1)BR
COUNTY CHAMPAIGN
TOTAL SHEETS 79
SHEET NO. 59A
CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT



ELEVATION VIEW
WEST ABUTMENT (LOOKING WEST)



ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)

• LOCATION OF TEMPORARY SHORING AND CRIBBING

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ 5"	SO FT	46.0
TEMPORARY SHORING AND CRIBBING	EACH	4.0

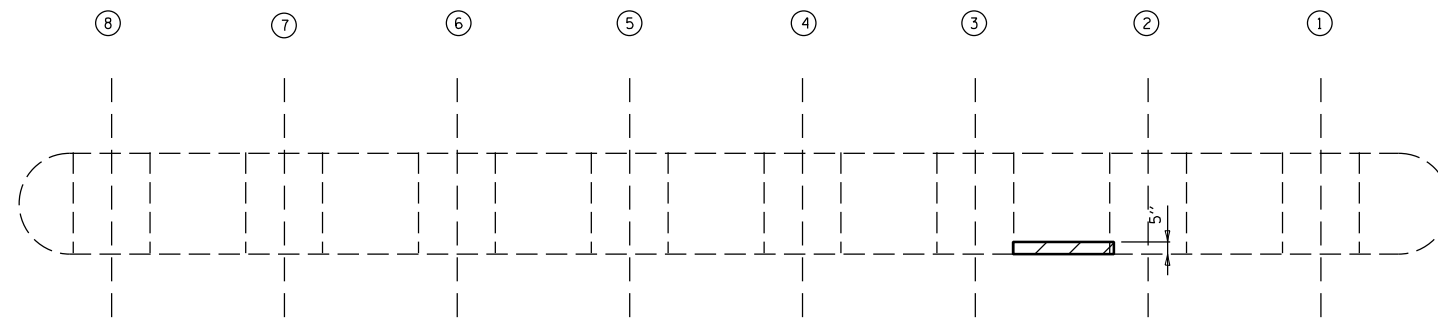
FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
px:\idot-pw.bentley.com\PIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN Structures\JMS\8-shr-StructurePlans		DRAWN - JMS	REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

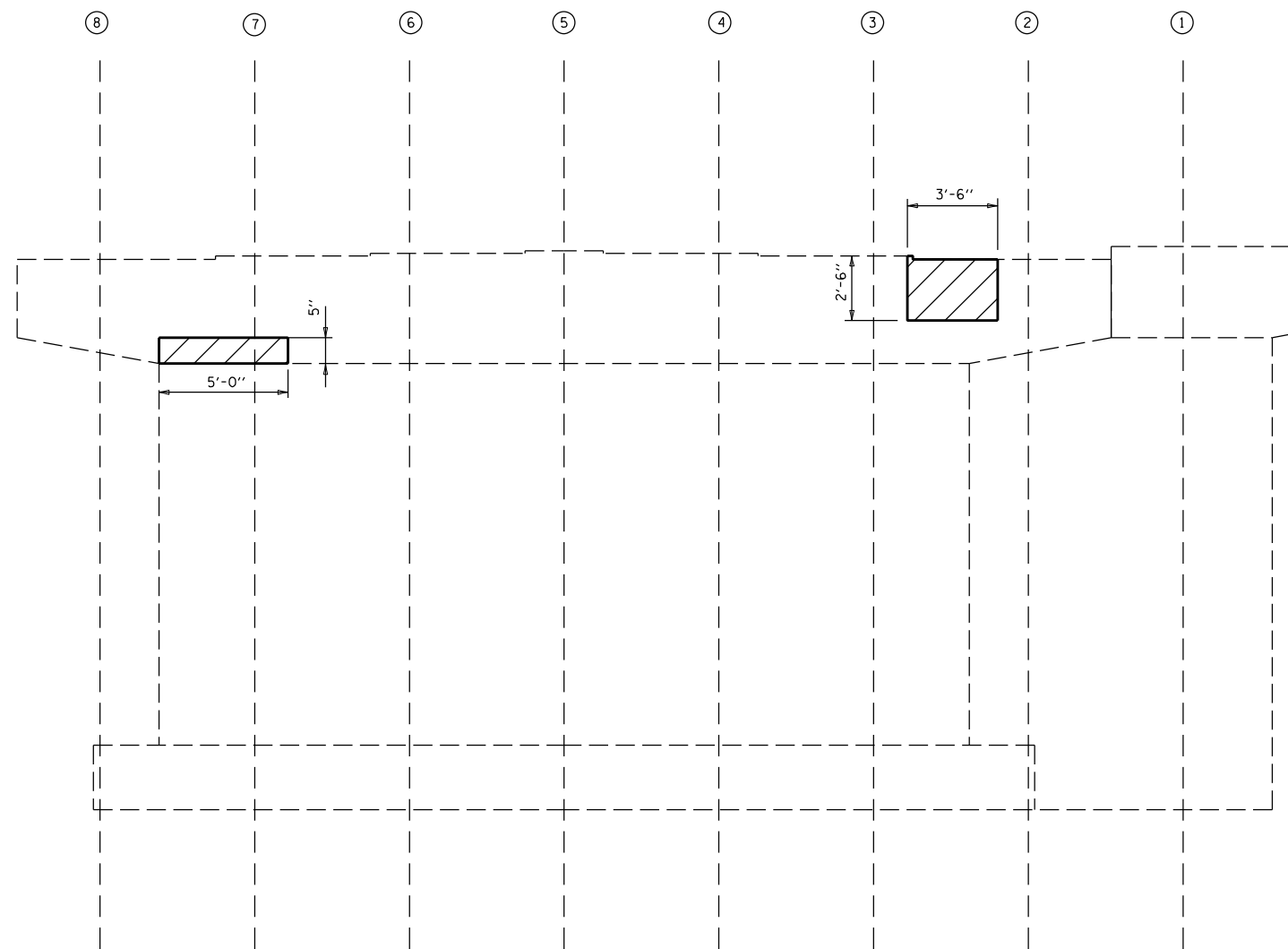
DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS
S.N. 010-0029

SCALE: NONE SHEET NO. 1 OF 10 SHEETS STA. _____ TO STA. _____

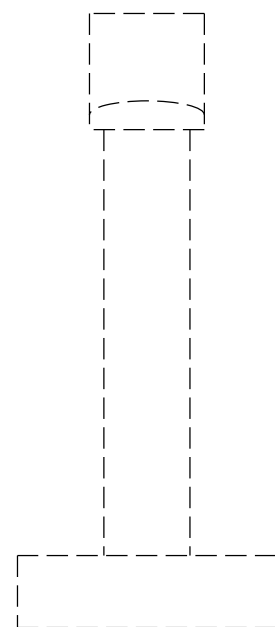
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	61
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70E48	



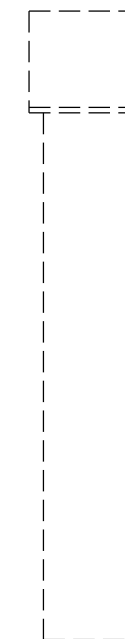
PLAN VIEW



ELEVATION VIEW
PIER 1 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 1 EAST FACE (LOOKING NORTH)



END ELEVATION VIEW
PIER 1 EAST FACE (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	14.0

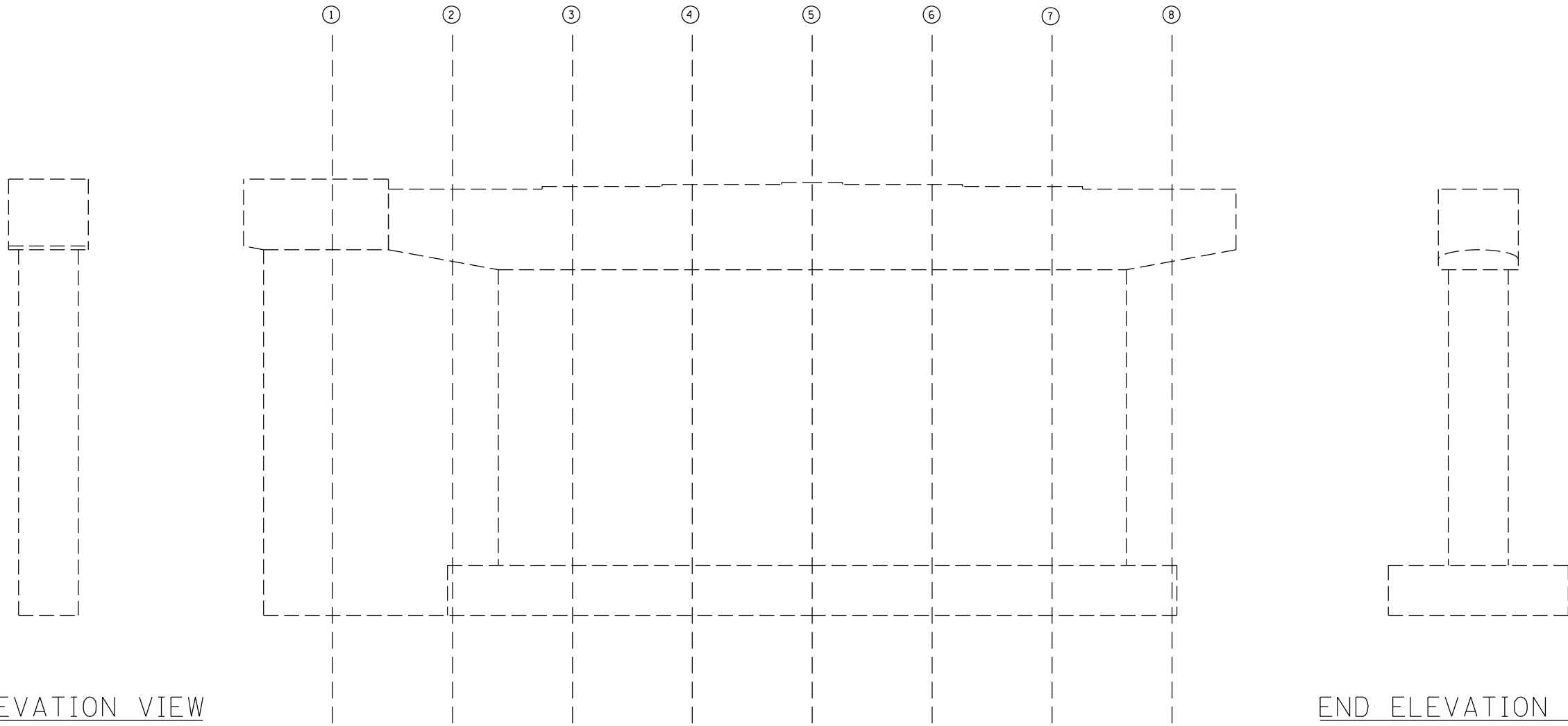
FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
px:\idot-pw.bentley.com\PIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\JMS\8-sh1-StructurePlans			REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0029

SCALE: NONE SHEET NO. 2 OF 10 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70E48	



END ELEVATION VIEW
PIER 1 EAST FACE (LOOKING SOUTH)

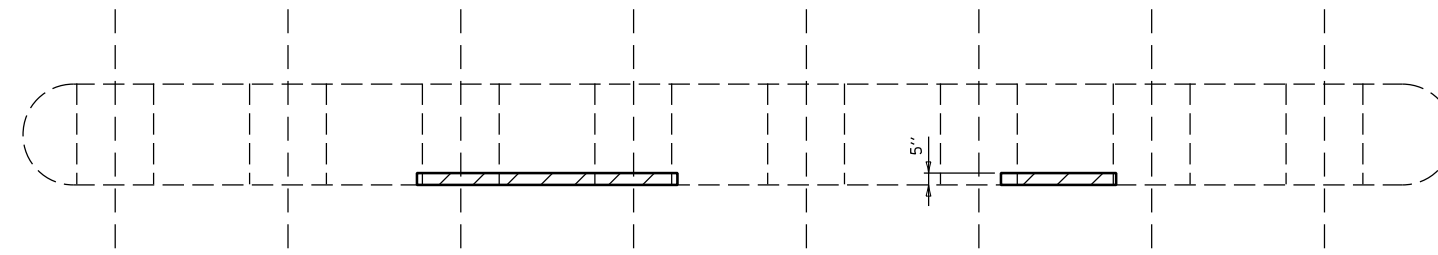
ELEVATION VIEW
PIER 1 WEST FACE (LOOKING EAST)

END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

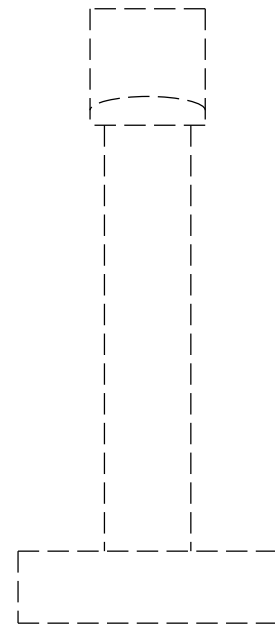
ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	0.0

FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1 S.N. 010-0029			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\idot-pw.bentley.com\PIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\JMS\8-shft-StructurePlans	DESIGNED - JMS	REVISOR - JMS	REVISOR - JMS		74	(10-7,10-7B-1)BR	CHAMPAIGN	79	63			
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR -		CONTRACT NO. 70E48							
PLOT DATE = 9/27/2021	DATE - 032521	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							
				SCALE: NONE		SHEET NO. 3 OF 10 SHEETS		STA. _____ TO STA. _____				

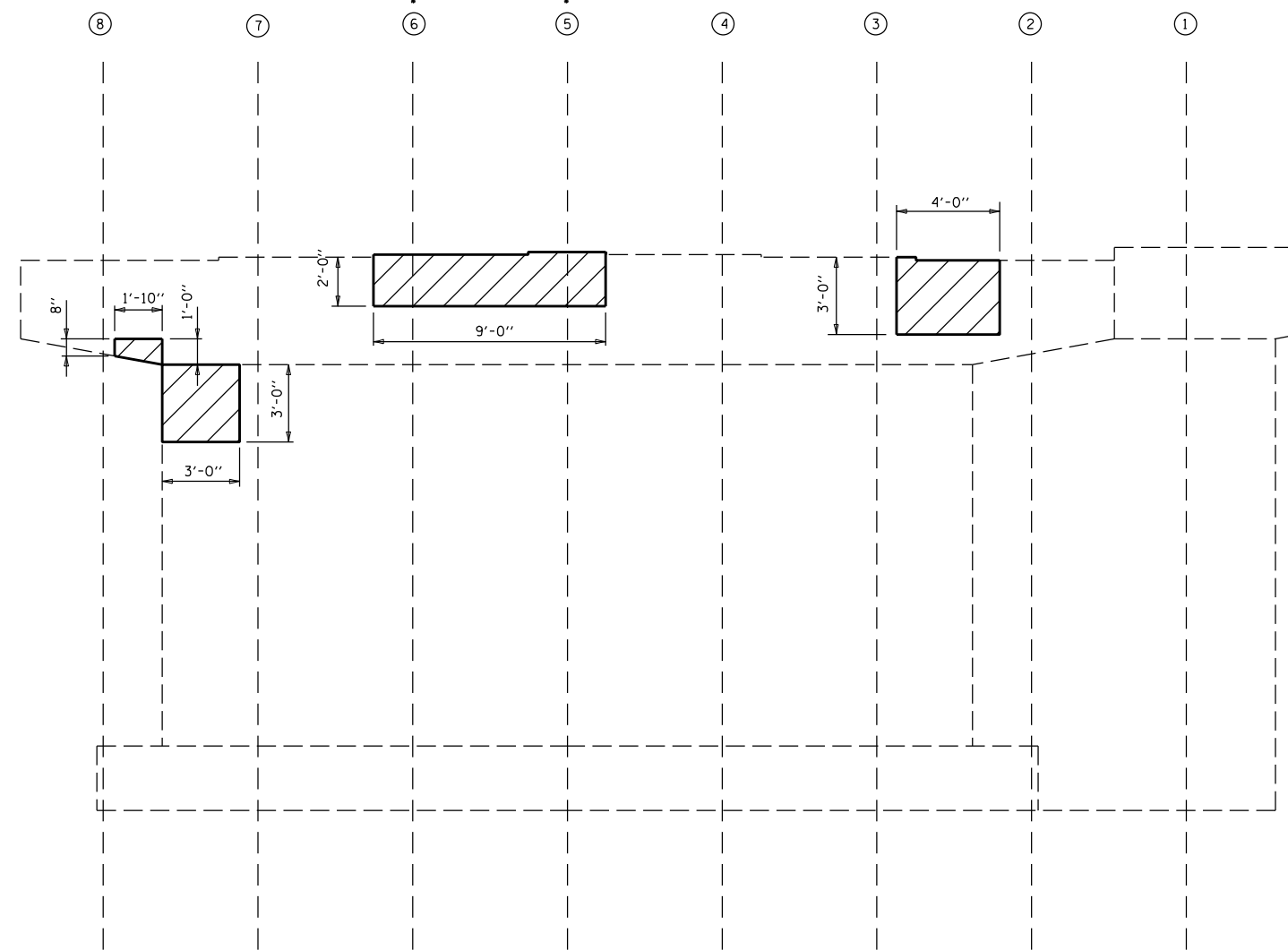


PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



END ELEVATION VIEW
PIER 2 EAST FACE (LOOKING NORTH)



ELEVATION VIEW
PIER 2 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 2 EAST FACE (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	41.0
TEMPORARY SHORING AND CRIBBING	EACH	2.0

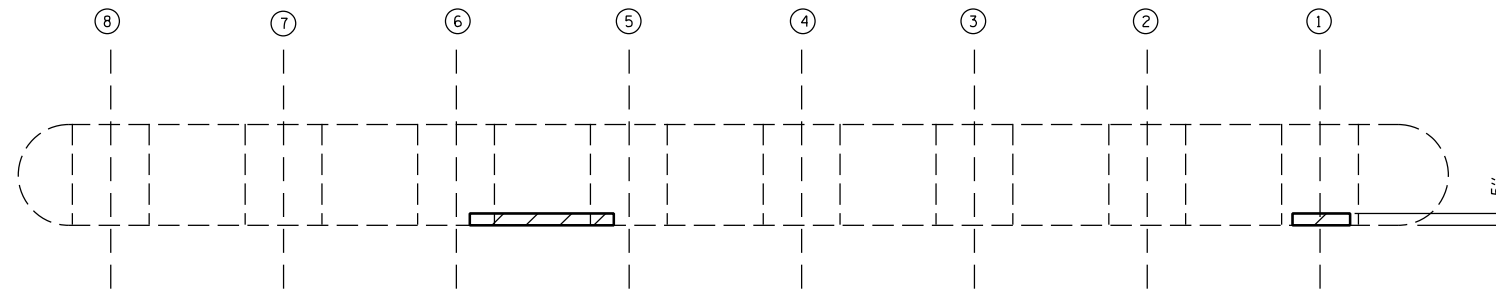
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

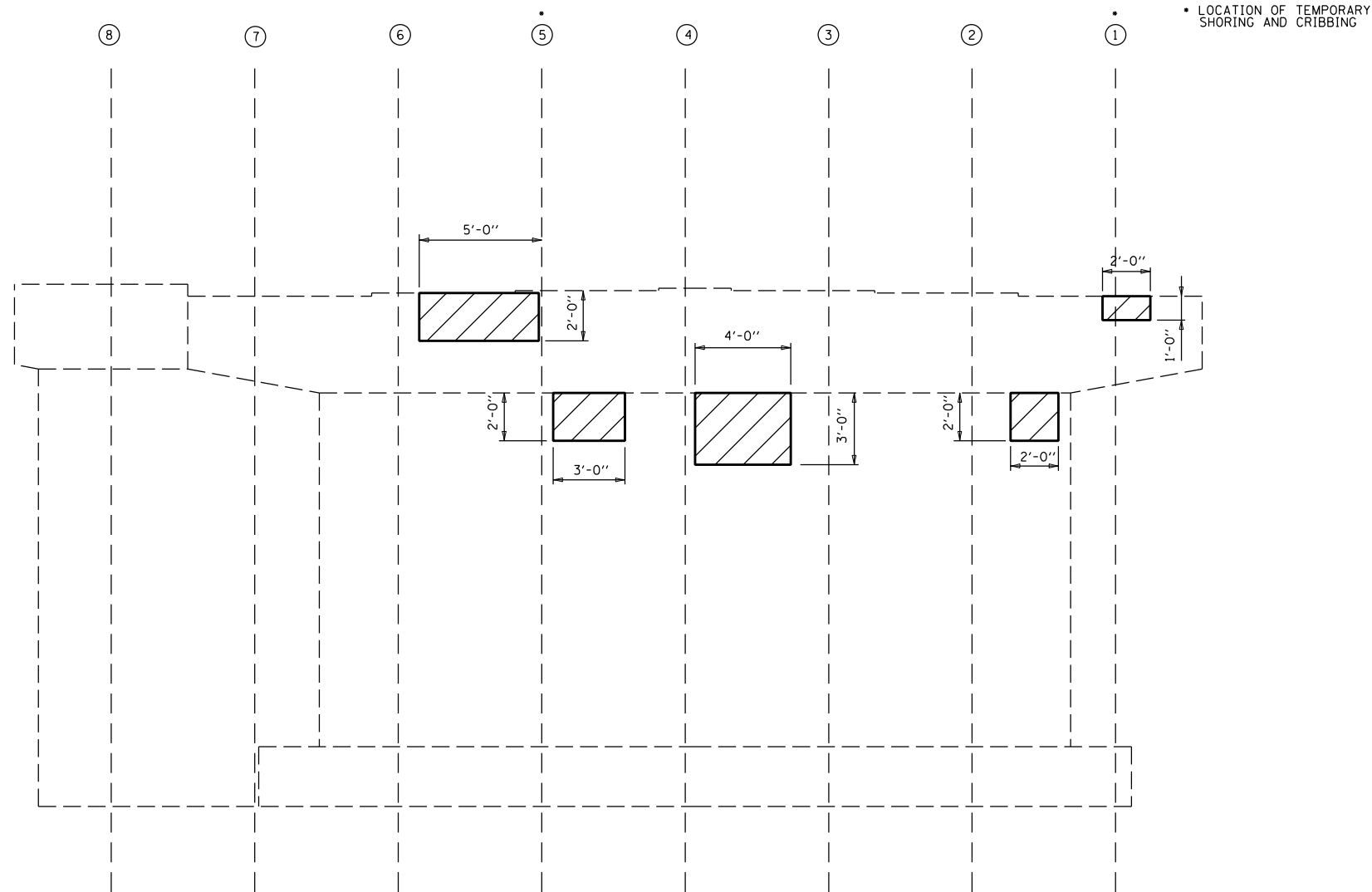
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0029

SCALE: NONE SHEET NO. 4 OF 10 SHEETS STA. _____ TO STA. _____

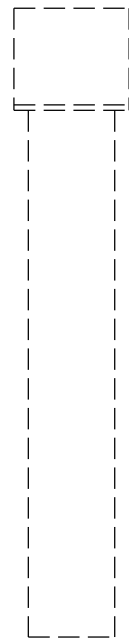
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	64
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				



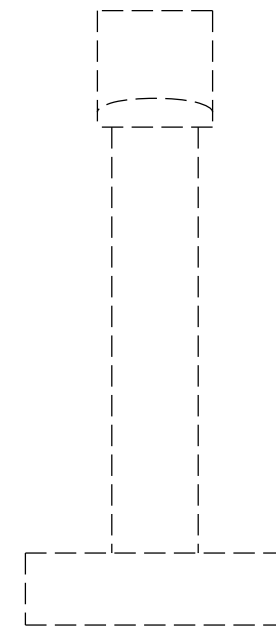
PLAN VIEW



• LOCATION OF TEMPORARY SHORING AND CRIBBING



END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING SOUTH)



END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING NORTH)

ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	34.0
TEMPORARY SHORING AND CRIBBING	EACH	2.0

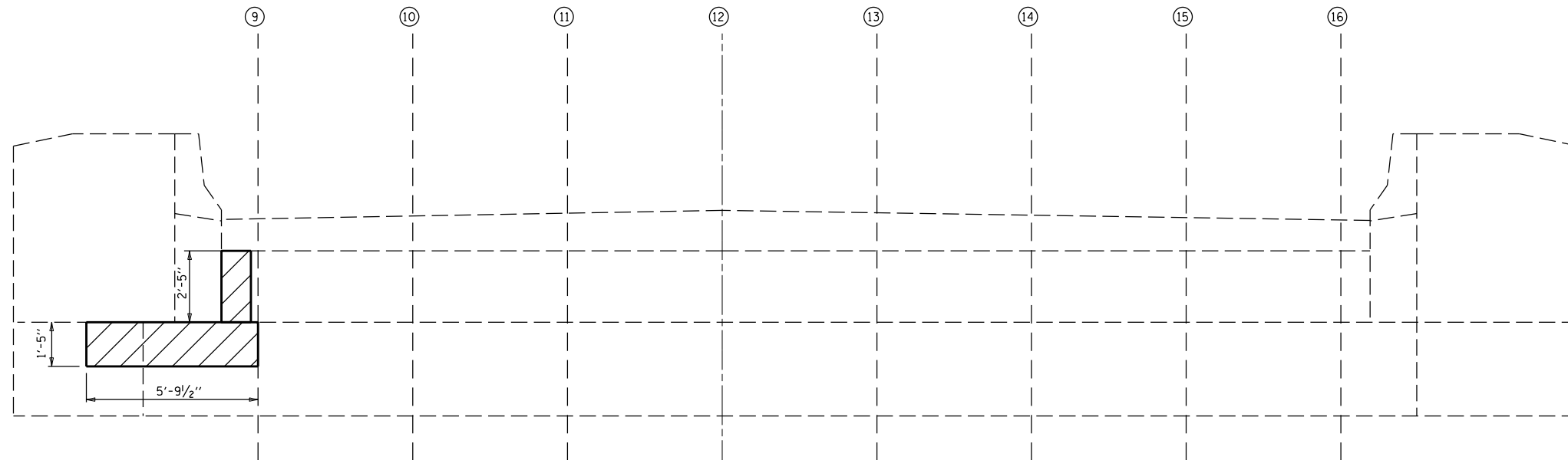
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px:\idot-pw.bentley.com\PIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\JMS-8-sh1-StructurePlans	REVISIONS	CHECKED -	REVISED - -
		DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0029

SCALE: NONE SHEET NO. 5 OF 10 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	65
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				

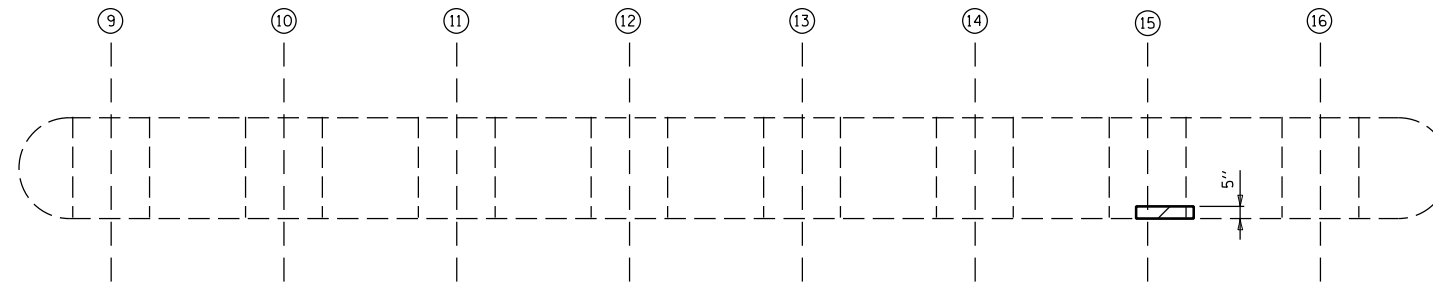


ELEVATION VIEW
EAST ABUTMENT (LOOKING EAST)

BILL OF MATERIALS

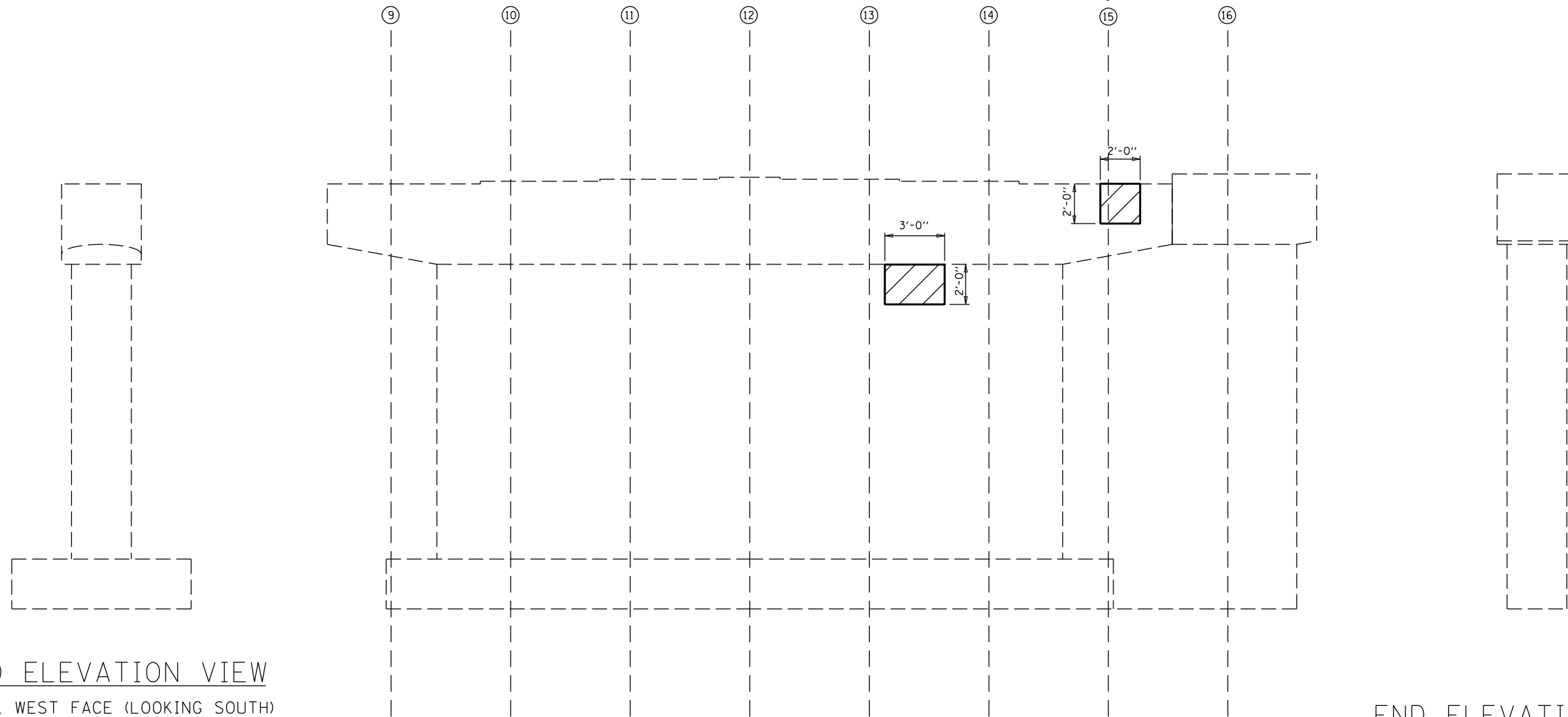
ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE $\frac{1}{2}$ "	SO FT	12.0

FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STRUCTURAL CONCRETE REPAIR AT ABUTMENTS S.N. 010-0030	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\1ldot-pw.bentley.com\PIWIDOT\Documents\DOT Offices\District 5\Projects\0570E48\CDRAWNS\Structures\2018-sh1-StructurePlans	DESIGNED - JMS	REVISED - -	74			(10-7,10-7B-1)BR	CHAMPAIGN	79	66	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -	CONTRACT NO. 70E48							
PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -	ILLINOIS FED. AID PROJECT							
					SCALE: NONE	SHEET NO. 6 OF 10 SHEETS	STA. _____ TO STA. _____			



PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 1 WEST FACE (LOOKING EAST)

END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING SOUTH)

END ELEVATION VIEW
PIER 1 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	10.0
TEMPORARY SHORING AND CRIBBING	EACH	1.0

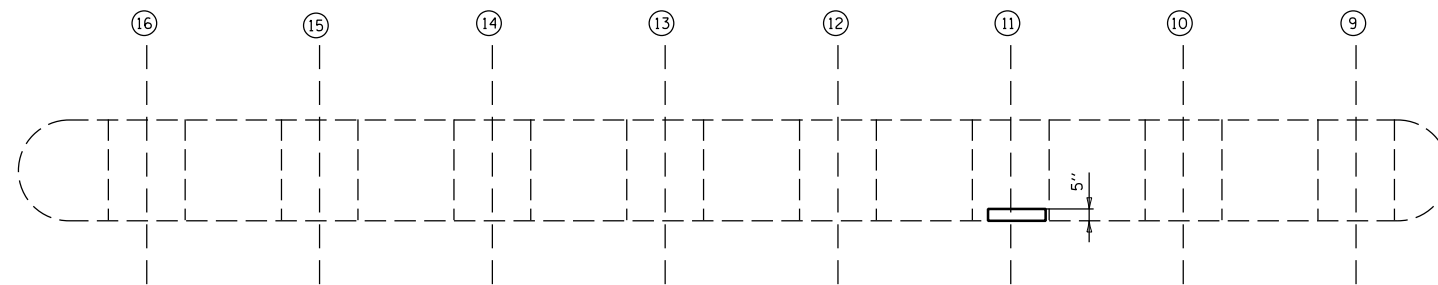
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0030

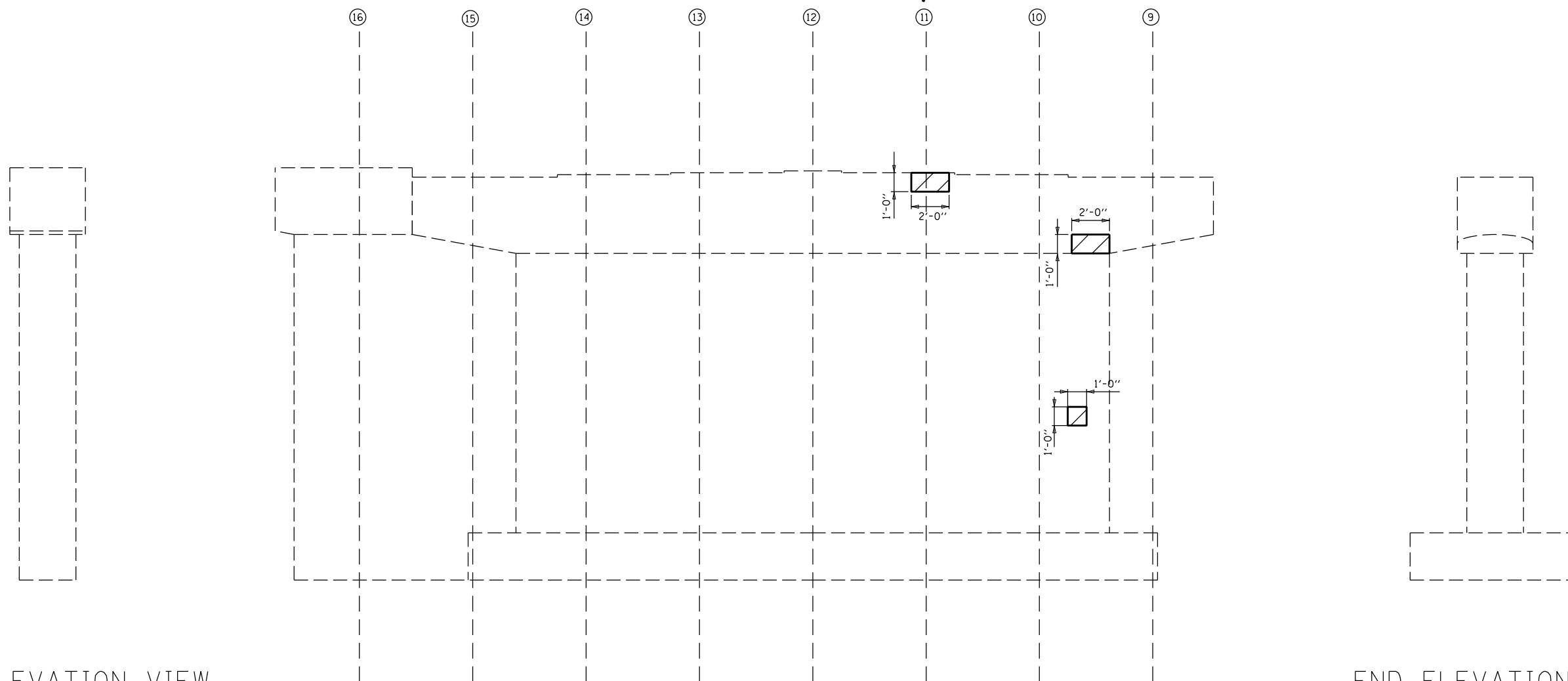
SCALE: NONE SHEET NO. 7 OF 10 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	67
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

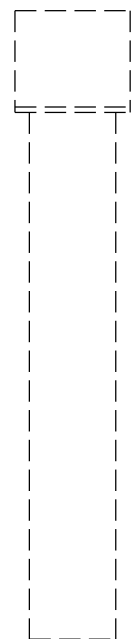


PLAN VIEW

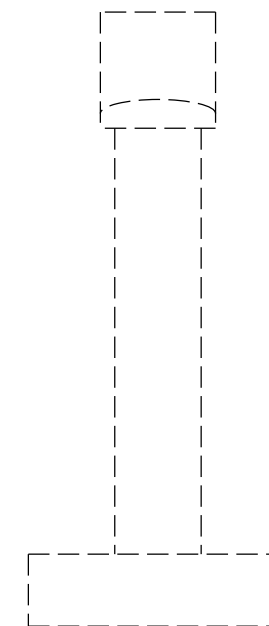
• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW
PIER 1 EAST FACE (LOOKING WEST)



END ELEVATION VIEW
PIER 1 EAST FACE (LOOKING NORTH)



END ELEVATION VIEW
PIER 1 EAST FACE (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	5.0
TEMPORARY SHORING AND CRIBBING	EACH	1.0

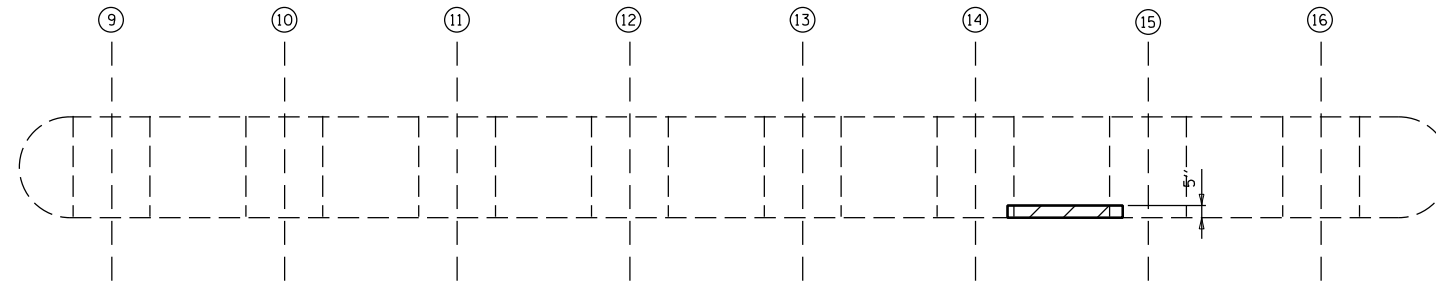
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px:\1ldot-pw.bentley.com\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\MS8-sh1-StructurePlans			REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

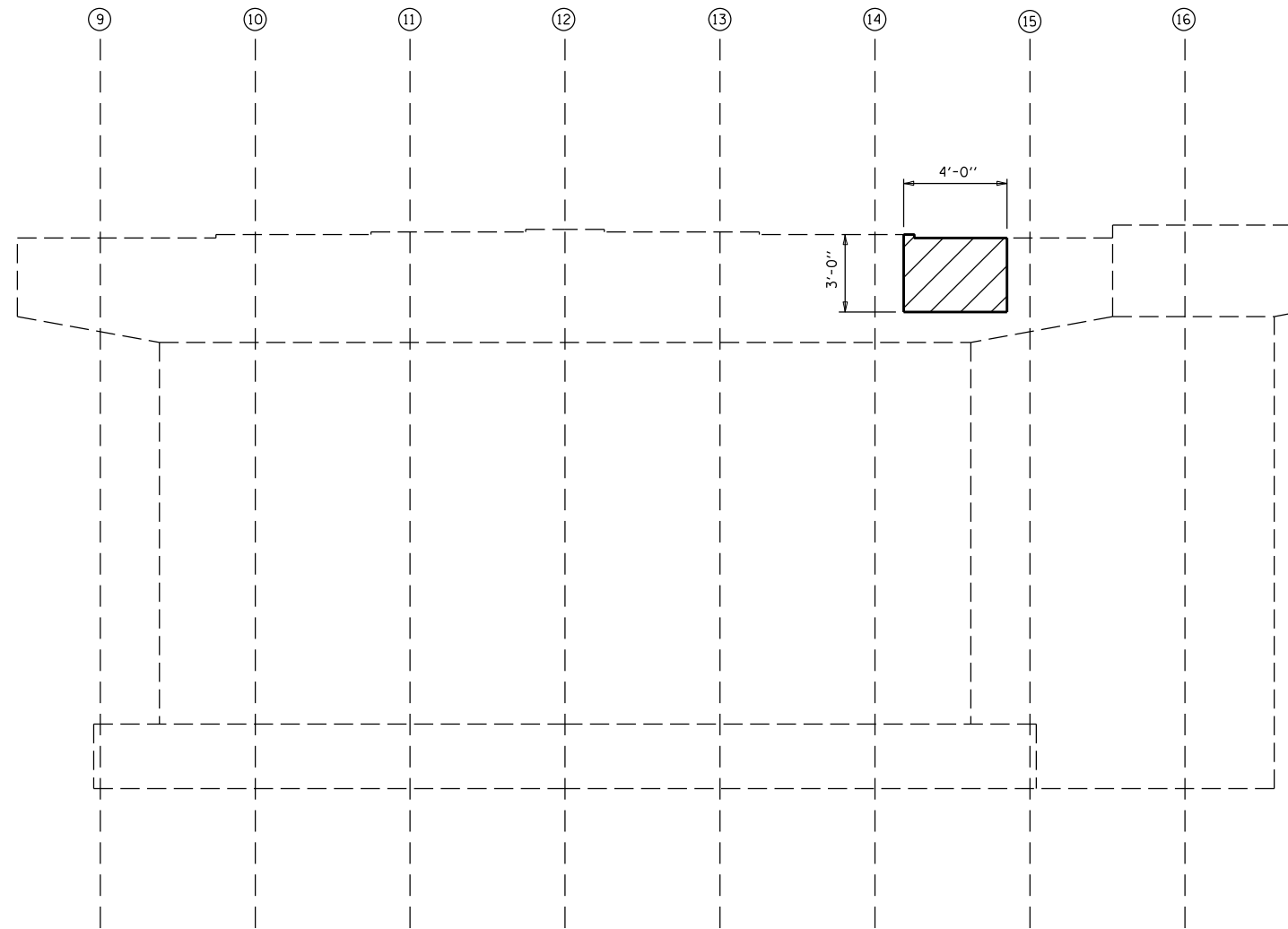
DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 1
S.N. 010-0030

SCALE: NONE SHEET NO. 8 OF 10 SHEETS STA. _____ TO STA. _____

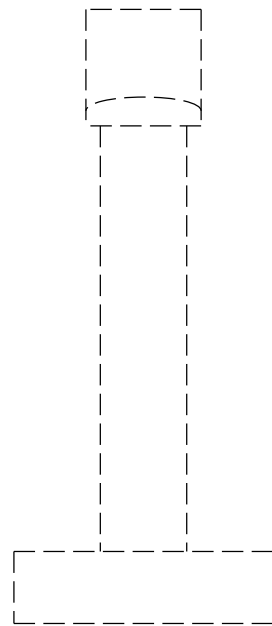
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	68
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



PLAN VIEW



ELEVATION VIEW
PIER 2 WEST FACE (LOOKING EAST)



END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING SOUTH)



END ELEVATION VIEW
PIER 2 WEST FACE (LOOKING NORTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	12.0

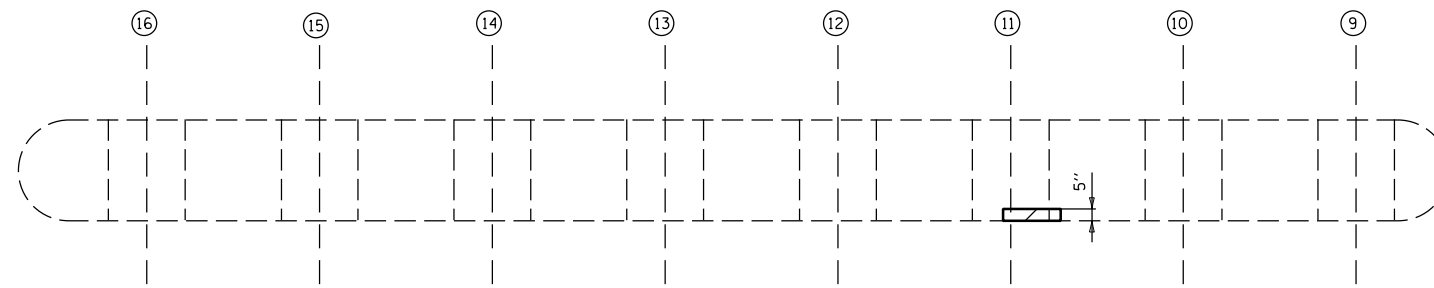
FILE NAME =	USER NAME = shererJM	DESIGNED - JMS	REVISED - -
px:\idot-pw.bentley.com\PIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWNStructures\JMS8-sh-t-StructurePlans			REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 10/4/2021	DATE - 032521	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0030

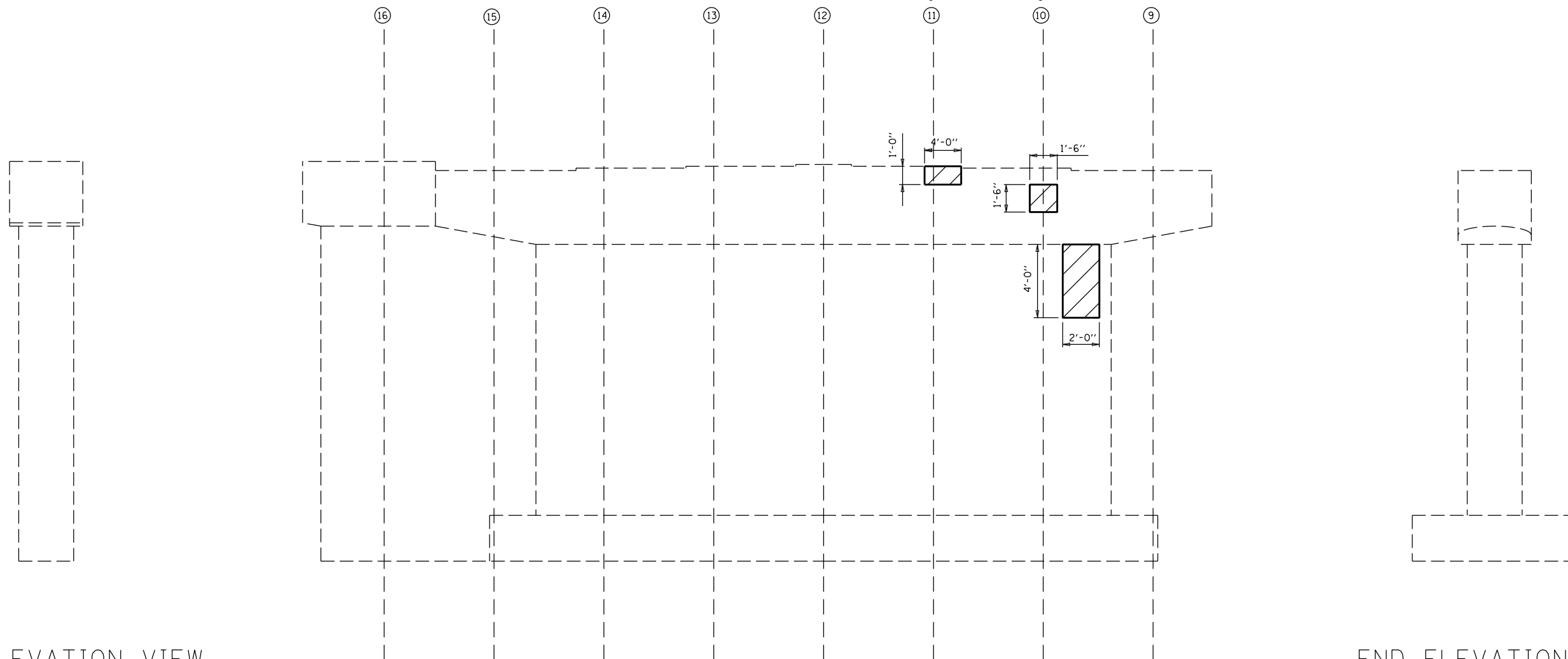
SCALE: NONE SHEET NO. 9 OF 10 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	69
CONTRACT NO. 70E48				
ILLINOIS FED. AID PROJECT				



PLAN VIEW

• LOCATION OF TEMPORARY SHORING AND CRIBBING



ELEVATION VIEW

PIER 2 EAST FACE (LOOKING WEST)

END ELEVATION VIEW

PIER 2 EAST FACE (LOOKING NORTH)

END ELEVATION VIEW

PIER 2 EAST FACE (LOOKING SOUTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE \leq 5"	SO FT	13.0
TEMPORARY SHORING AND CRIBBING	EACH	2.0

FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
px:\1ldot-pw.bentley.com\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\2018-sh1-StructurePlans\REVISED - -			
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 032521	REVISED - -

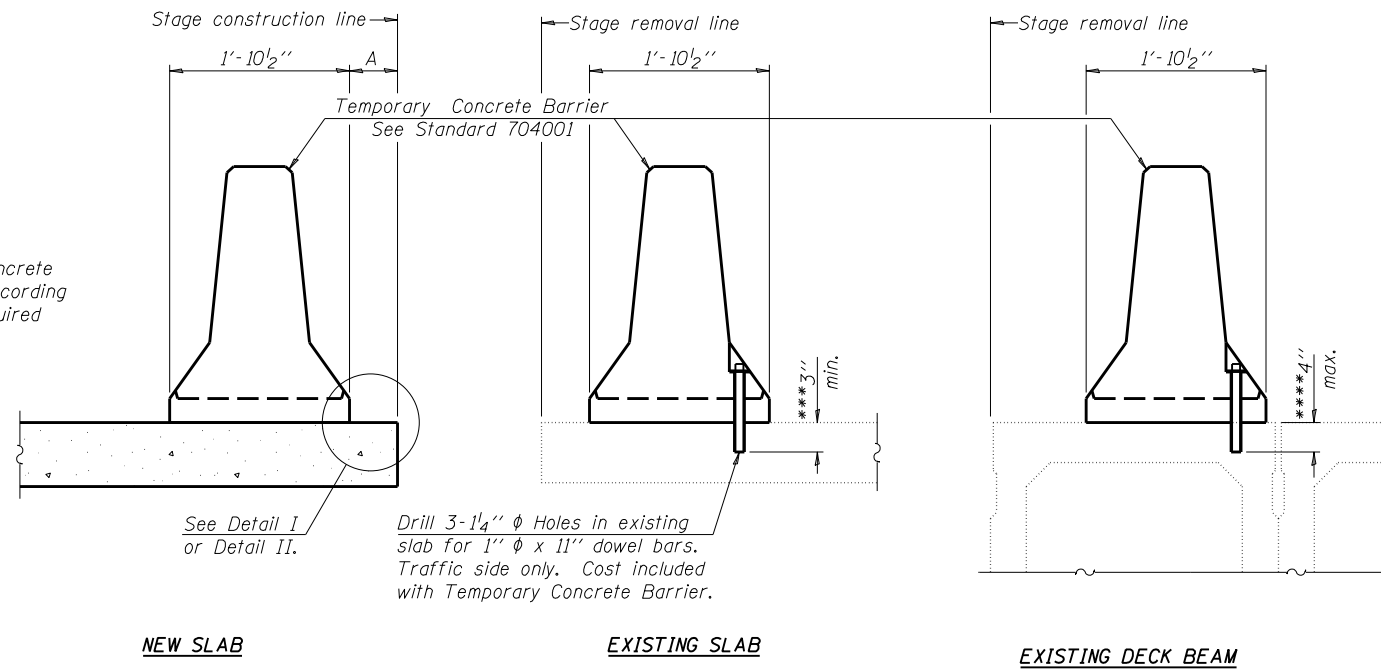
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STRUCTURAL CONCRETE REPAIR AT PIER 2
S.N. 010-0030

SCALE: NONE SHEET NO. 10 OF 10 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	70
				CONTRACT NO. 70E48
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

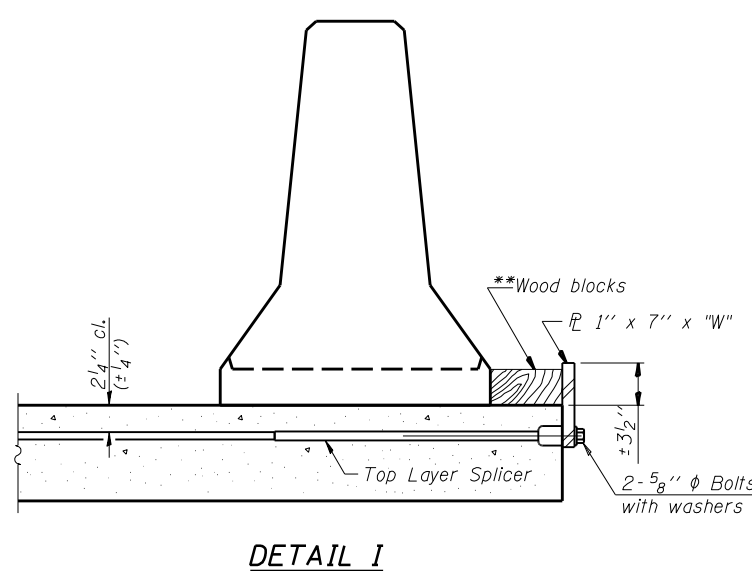
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

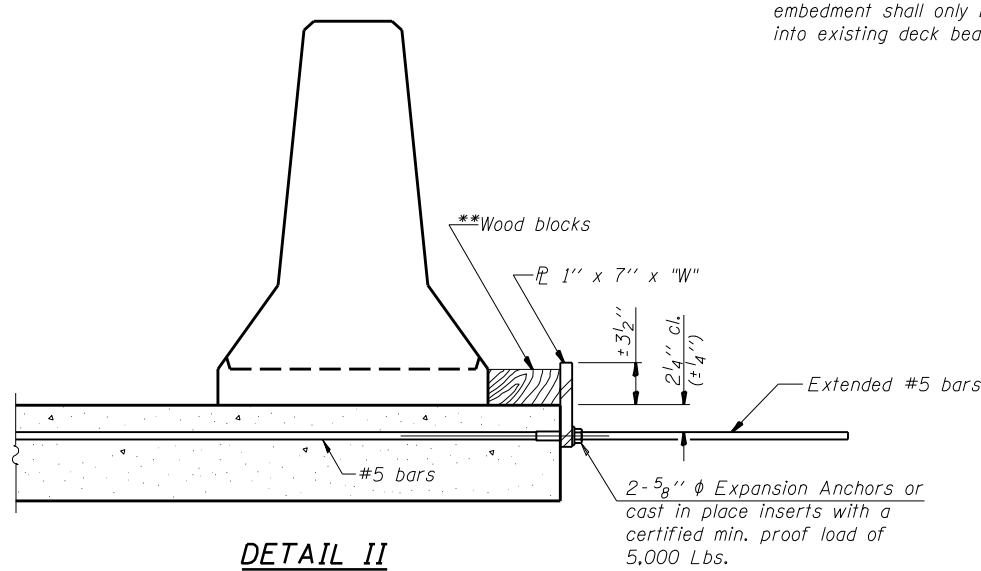
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

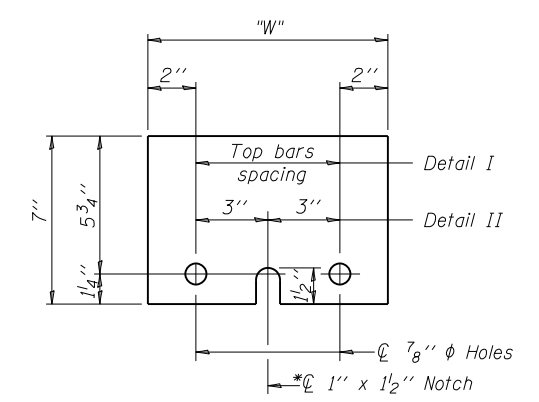
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

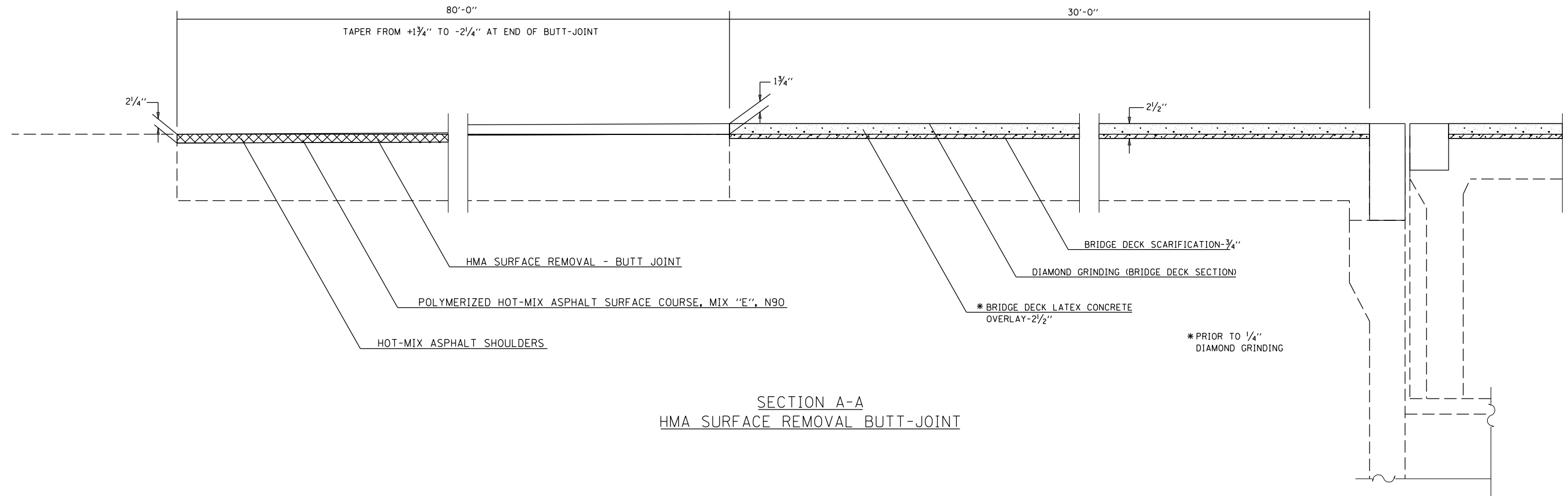
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

FILE NAME =	USER NAME = shererJM	DESIGNED -	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION S.N.(s) 010-0027, 0028, 0029, 0030			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWINGS\Structures\70E48-sh1-StructurePlans	PROJECT = 0570E48	CHECKED -	REVISED - -					74	(10-7,10-7B)BR	CHAMPAIGN	79	71
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	REVISOR - -		CONTRACT NO. 70E48							
PLOT DATE = 9/27/2021	DATE -	REVISOR -	REVISOR - -		ILLINOIS FED. AID PROJECT							



SECTION A-A
HMA SURFACE REMOVAL BUTT-JOINT

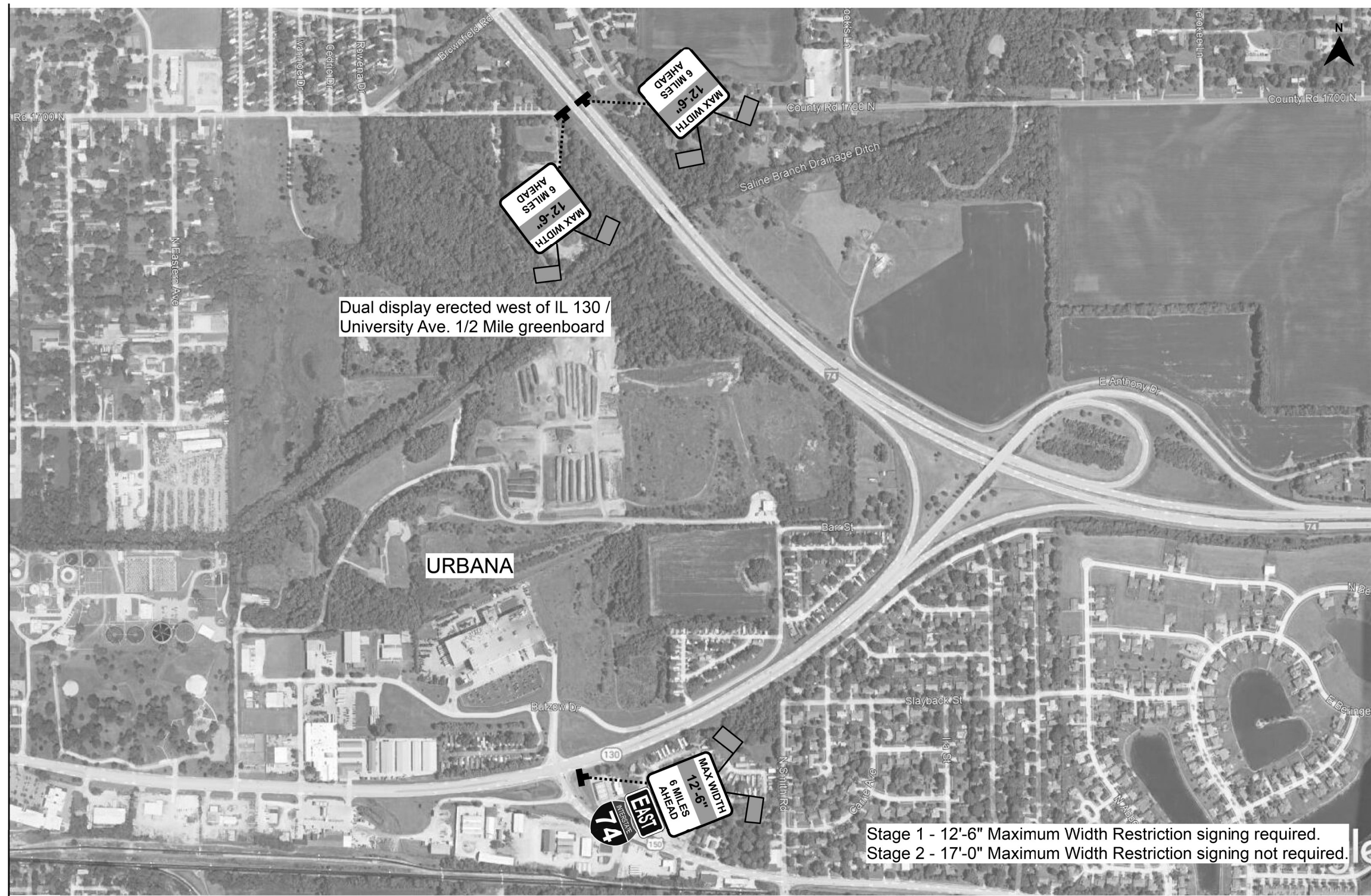
FILE NAME =	USER NAME = shere-JM	DESIGNED - JMS	REVISED - -
p:\1\dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\2018-sh1-StructurePlans			REVISED - -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -
	PLOT DATE = 9/27/2021	DATE - 030518	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF HMA SURFACE REMOVAL - BUTT JOINT
S.N.(s) 010-0027, 0028, 0029, 0030

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	79	72
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	



MODEL: \\MODELS\MAME5
 FILE: \\mame5\proj\100-224\benlby.com\PHWDOT\Documents\DOT Office\benlby.com\PHWDOT\Documents\Structures\70E48.ctb\T5Detail.dwg

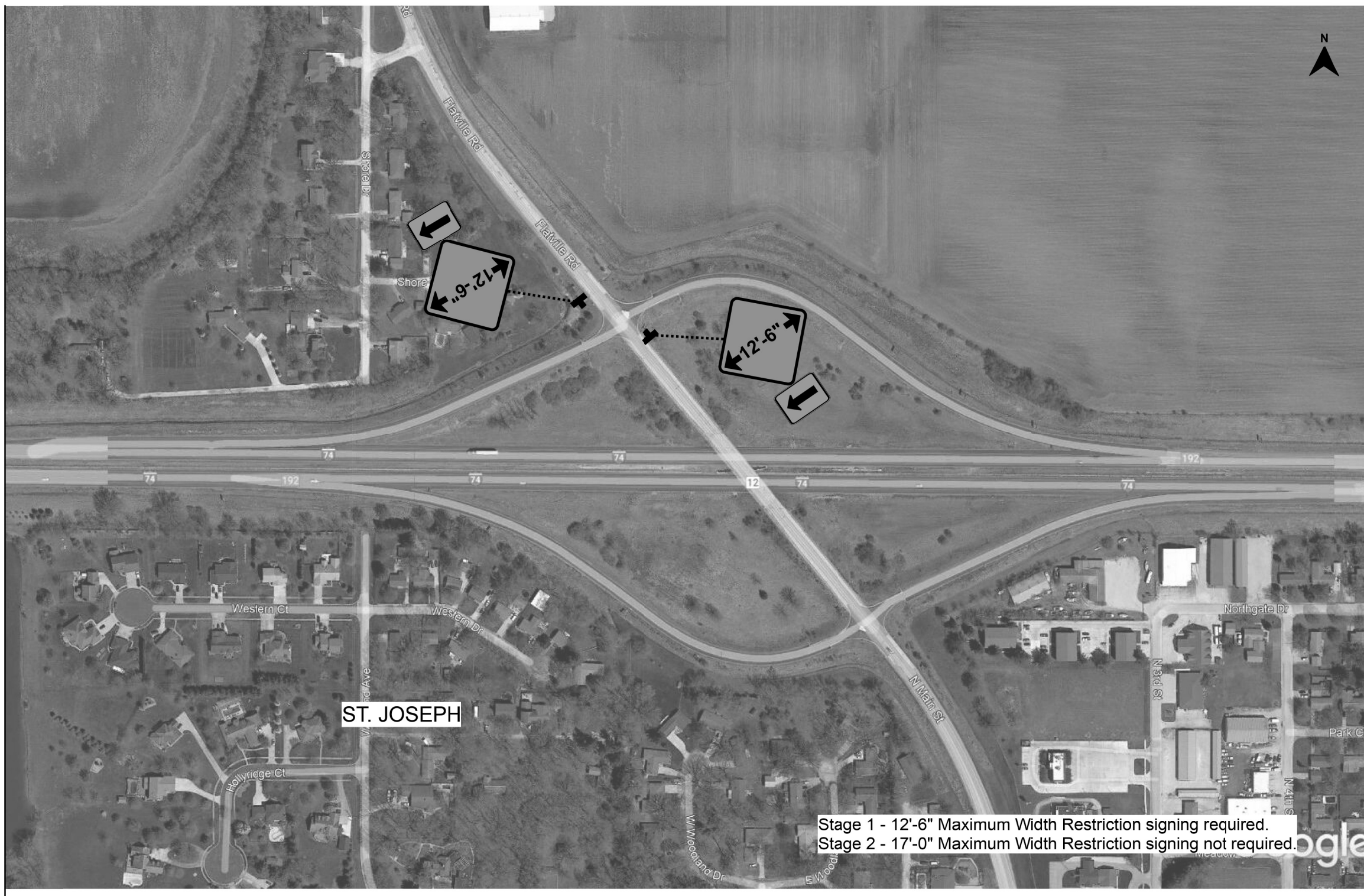
USER NAME = shererJM	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 40,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 9/27/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING
PLAN SHEET #1

SCALE: NONE SHEET 1 OF 3 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	_____	_____
			CONTRACT NO. 70E48	
ILLINOIS FED. AID PROJECT				



ST. JOSEPH

Stage 1 - 12'-6" Maximum Width Restriction signing required.
 Stage 2 - 17'-0" Maximum Width Restriction signing not required.

MODEL: \\MODELS\MAME5
 FILE: MAME5_Plan\1000-22\benlley.com\PHWDOT\Documents\DOT Offices\Dir\frt. S\Projects\0570E48\CADD\Drawings\Structures\70E48_sht-1T5Detail.dwg

USER NAME = shererJM	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 40,0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 9/27/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
 PLAN SHEET #2**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B,1)BR	CHAMPAIGN	___	___
			CONTRACT NO. 70E48	
ILLINOIS FED. AID PROJECT				



Dual display erected by Ogden / Royal 1 Mile greenboard

Stage 1 - 12'-6" Maximum Width Restriction signing required.
 Stage 2 - 17'-0" Maximum Width Restriction signing not required.

MODEL: \\MODELS\MAMES
 FILE: MAMES_Plan\100-22\benitez.com\PHWDOT\Documents\DOT Offices\benitez.com\PHWDOT\Documents\Structures\70E48-struct\T5Detail.dgn

USER NAME = shererjm	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 40,0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 9/27/2021	DATE - _____	REVISED - _____

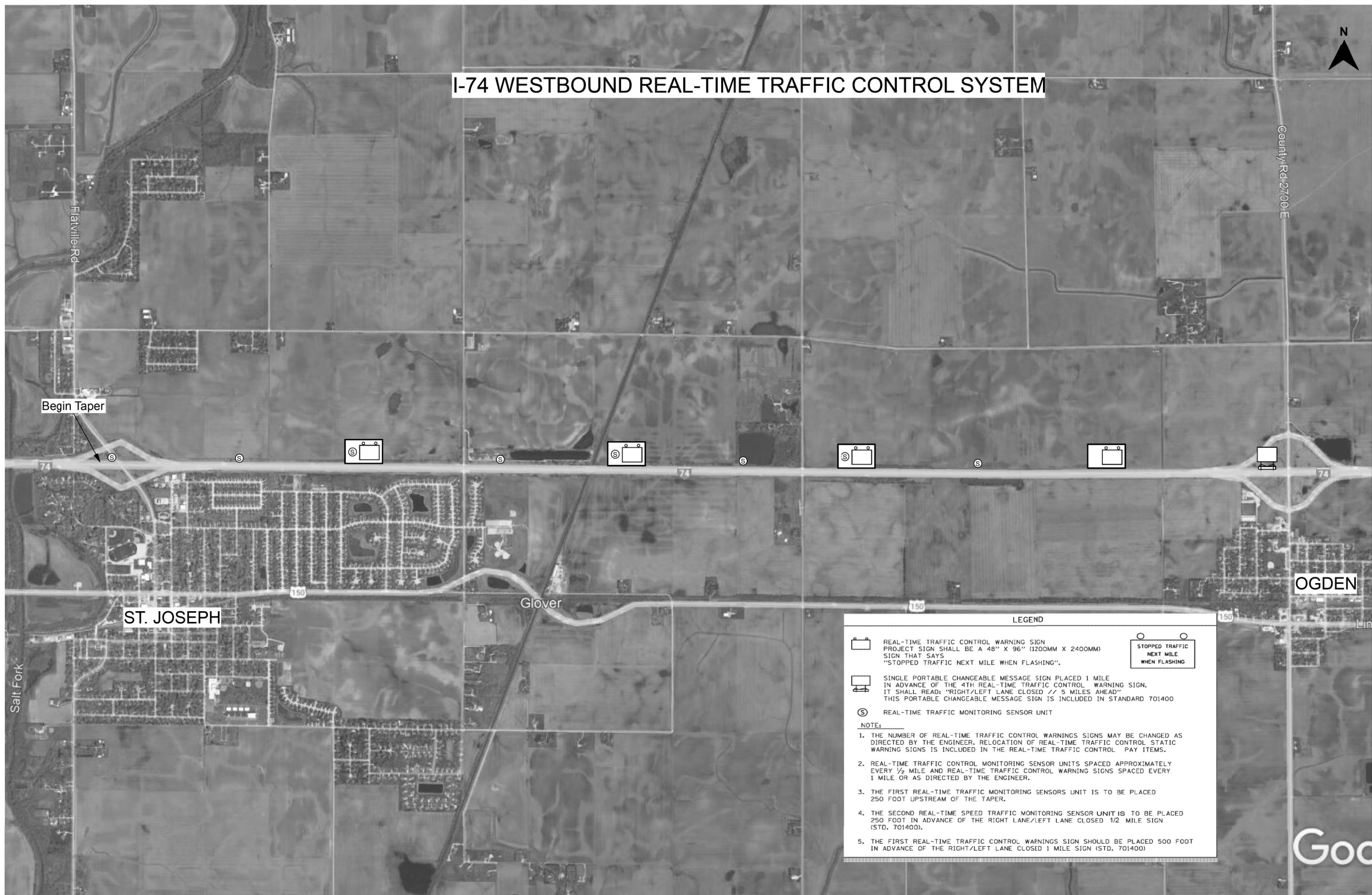
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
 PLAN SHEET #3**

SCALE: NONE SHEET 3 OF 3 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	___	___
			CONTRACT NO. 70E48	
ILLINOIS FED. AID PROJECT				

I-74 WESTBOUND REAL-TIME TRAFFIC CONTROL SYSTEM



LEGEND

	REAL-TIME TRAFFIC CONTROL WARNING SIGN PROJECT SIGN SHALL BE A 48" X 96" (1200MM X 2400MM) SIGN THAT SAYS "STOPPED TRAFFIC NEXT MILE WHEN FLASHING".		STOPPED TRAFFIC NEXT MILE WHEN FLASHING
	SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED 1 MILE IN ADVANCE OF THE 4TH REAL-TIME TRAFFIC CONTROL WARNING SIGN. IT SHALL READ: "RIGHT/LEFT LANE CLOSED // 5 MILES AHEAD" THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400		
	REAL-TIME TRAFFIC MONITORING SENSOR UNIT		

NOTE:

1. THE NUMBER OF REAL-TIME TRAFFIC CONTROL WARNINGS SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF REAL-TIME TRAFFIC CONTROL STATIC WARNING SIGNS IS INCLUDED IN THE REAL-TIME TRAFFIC CONTROL PAY ITEMS.
2. REAL-TIME TRAFFIC CONTROL MONITORING SENSOR UNITS SPACED APPROXIMATELY EVERY 1/2 MILE AND REAL-TIME TRAFFIC CONTROL WARNING SIGNS SPACED EVERY 1 MILE OR AS DIRECTED BY THE ENGINEER.
3. THE FIRST REAL-TIME TRAFFIC MONITORING SENSORS UNIT IS TO BE PLACED 250 FOOT UPSTREAM OF THE TAPER.
4. THE SECOND REAL-TIME TRAFFIC MONITORING SENSOR UNIT IS TO BE PLACED 250 FOOT IN ADVANCE OF THE RIGHT LANE/LEFT LANE CLOSED 1/2 MILE SIGN (STD. 701400).
5. THE FIRST REAL-TIME TRAFFIC CONTROL WARNINGS SIGN SHOULD BE PLACED 500 FOOT IN ADVANCE OF THE RIGHT/LEFT LANE CLOSED 1 MILE SIGN (STD. 701400)

MODEL: \\MODELS\MAME
 FILE: \\MODELS\p\1100-22\benitez.com\PHWDOT\Documents\DOT Offices\Dir\ref. S\Projects\0570E48\CADD\Structures\70E48-struct-IT5Detail.dwg

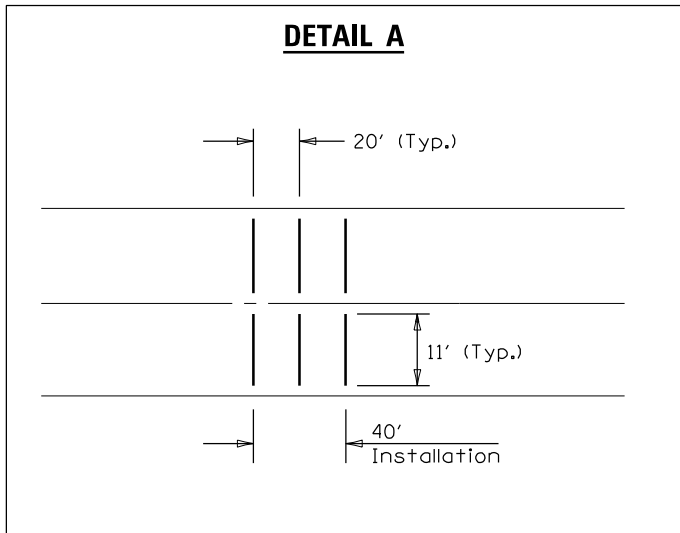
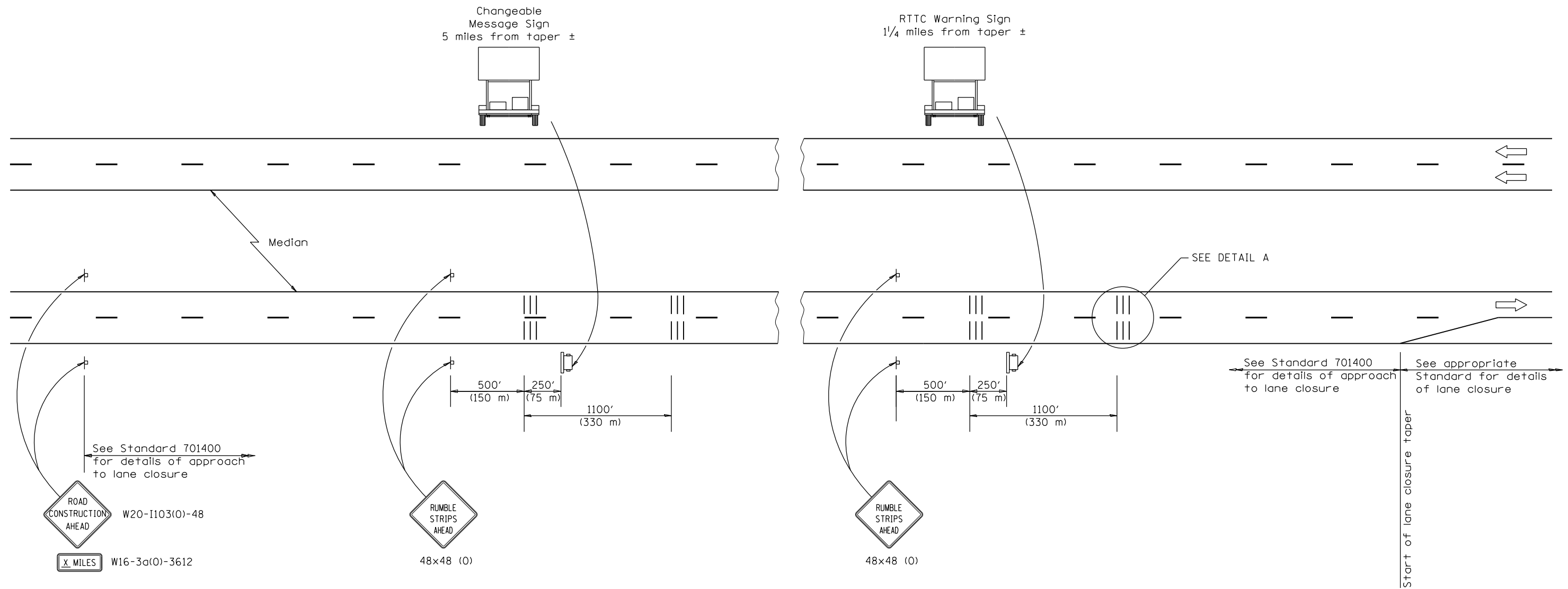
USER NAME = shererJM	DESIGNED - _____	REVISED - _____
PLOT SCALE = 40,0000' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = 9/27/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REAL-TIME TRAFFIC CONTROL SYSTEM PLAN SHEET #2		
SCALE: NONE	SHEET 2 OF 2 SHEETS	STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7,10-7B-1)BR	CHAMPAIGN	___	___
CONTRACT NO. 70E48			ILLINOIS FED. AID PROJECT	

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



SYMBOLS

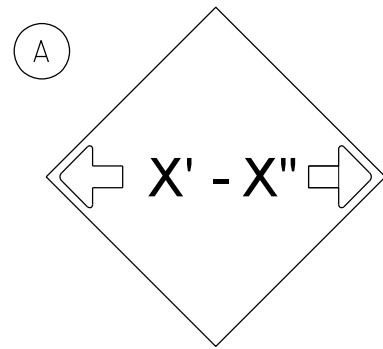
- ▬ Sign
- ||| Temporary Rumble Strips (Special)
- ☐ Trailer Mounted Sign

GENERAL NOTES

- Remove the Temporary Rumble Strips (Special) prior to the removal of the advanced warning signs.
- All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = shere-JM	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)	F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - _____						74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	78
PLOT SCALE = 40.0000' / in.						CONTRACT NO. 70B92				
PLOT DATE = 9/27/2021		DATE - _____		SCALE: N.T.S.		SHEET 1 OF 1 SHEETS		STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT

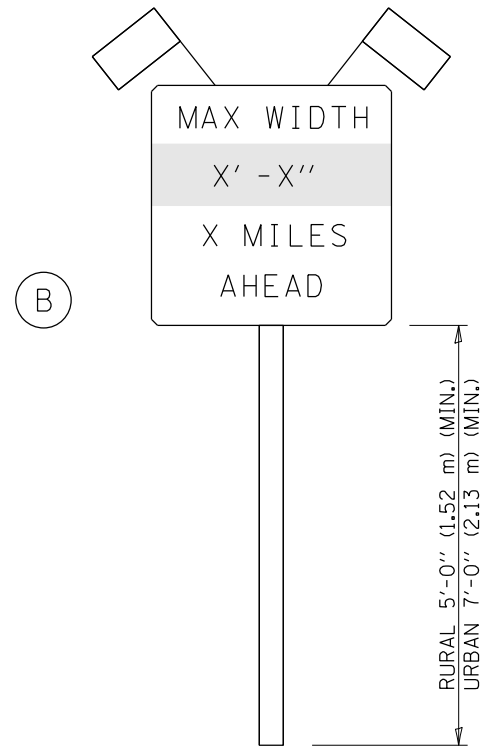
DESIGNER NOTE: PROVIDE MAP WITH SIGN LOCATIONS (A, B, ETC.) AND COORDINATE WITH TRAFFIC OPERATIONS ENGINEER.
 INCLUDE DISTRICT SPECIAL PROVISION - "WIDTH RESTRICTION SIGNING"



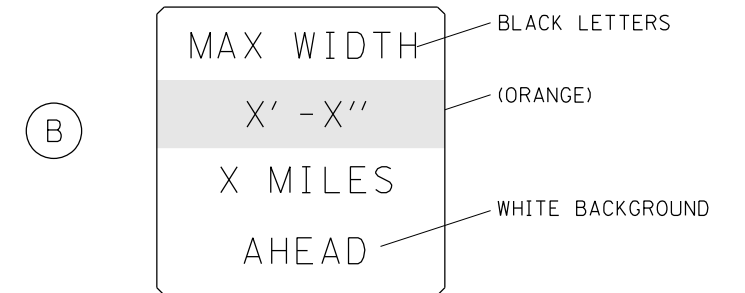
W12-2(0) - 48"x48" (1200x1200)

SIGN (A) 2 SIGNS - W12-2(0) - 48"x48" (1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I1103(0) - 48"x48" (1200x1200)
 "D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = shererJM	DESIGNED -	REVISED - 03/11 - KJI
px:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E48\CDRAWN\Structures\70E48-shr-ITSDetail.dgn		CHECKED -	REVISED - 05/08
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 10/08 - KJI
	PLOT DATE = 9/27/2021	DATE -	REVISED - 7/09 - KJI

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING

SCALE: _____ SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

DISTRICT 5 DETAIL NO. X7200201				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(10-7, 10-7B-1)BR	CHAMPAIGN	79	79
			CONTRACT NO. 70E48	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				